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Northwestern University Bulletin

Dental School
Announcements
1917-1918

Volume XVII, Number 31

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Dental School Announcements 1917-1918

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April, 1917

Dental School Calendar

1917-1918

1917

- Sept. 24 Mon. Examinations for advanced standing begin
Oct. 2 Tue. Academic year begins
Oct. 13 Sat. Last day for entrance in course
Nov. 29 Thu. Thanksgiving Day
Dec. 22 Sat. Last day of school before Christmas recess

1918

- Jan. 7 Mon. First day of school after Christmas recess
Feb. 4 Mon. Mid-year examinations begin
Feb. 4 Mon. Practitioner's Course begins
Feb. 12 Tue. Lincoln's Birthday
Feb. 11 Wed. Second semester begins
Feb. 22 Fri. Washington's Birthday
Mch. 2 Sat. Practitioner's Course ends
May 23 Thu. Senior examinations begin
May 30 Thu. Memorial Day
May 31 Fri. Junior and Freshman examinations begin
June 10 Mon. Commencement Banquet
June 11 Tue. Home Coming Clinic
June 12 Wed. SIXTIETH ANNUAL COMMENCEMENT

The University

ON the last day of May, in the year 1850, there met in the City of Chicago, at the office of Grant Goodrich, 109 Lake Street, near Dearborn, nine men, Richard A. Blanchard, Jabez K. Botsford, Andrew J. Brown, Henry W. Clark, John Evans, Grant Goodrich, Zadoc Hall, Richard Haney, and Orrington Lunt, to consider the founding of a university in the vicinity of Chicago. They agreed that "the interests of Christian learning demand the immediate establishment of a University in the North-west," and appointed a committee to petition the General Assembly for a charter. January 28, in the next year, 1851, Governor French signed the Act that incorporated "the Trustees of the Northwestern University." The name of the corporation has since been changed to Northwestern University.

The first Board of Trustees consisted of thirty-six persons, some of whom were representatives of annual conferences of the Methodist Episcopal Church and some residents of Chicago or vicinity. The corporation as at present constituted consists of thirty-six trustees elected by the Board, and two elected by each of three annual conferences of the Methodist Episcopal Church, making a total of forty-two.

The charter provides that a majority of the Board shall be members of the Methodist Episcopal Church, but that no particular religious faith shall be required for those who become students at the institution.

Amendments have provided that other chartered institutions may become departments of the University; that all property of whatever kind or description belonging to or owned by the said corporation shall be forever free from taxation for any and all purposes; that no spirituous, vinous, or fermented liquors shall be sold under license or otherwise, within four miles of the location of the University.

After considering several locations in the vicinity of Chicago, the Trustees selected for the University a tract of land on the shore of Lake Michigan, twelve miles north of the heart of Chicago. Here in 1855 the first University building was erected, and about this location has grown up the City of Evanston, a beautiful residential city of thirty thousand inhabitants. The professional schools of Medicine, Law, Pharmacy, Dentistry, and Commerce are situated in the city of Chicago.

Dental School

THE DENTAL SCHOOL was founded and is maintained for the purpose of preparing young men and young women in the most thorough manner for the practice of dentistry, and for the promotion of dental science and dental literature.

The Dental School was organized in 1887 and three years later became a department of the University. In 1896 it absorbed the American College of Dental Surgery and for some years occupied the building on Franklin and Madison Streets, Chicago, formerly occupied by that school. It is now located in Northwestern University Building, at the corner of Lake and Dearborn Streets, Chicago, occupying the upper three floors of the building, over 60,000 square feet.

The clinic room, sufficient in extent to accommodate the great clinic and the offices connected with it, is of the best design of construction, consisting of a single room with arched ceiling. It is on the sixth floor, with free light on two sides and abundant skylight. Adjoining the operative clinic is the prosthetic clinic, and on the same floor is the senior prosthetic laboratory for crown and bridge work, the laboratory for porcelain and cast metal inlay work, an impression room, a room for extracting, and a room devoted to radiographic work. The lecture rooms, three in number, are arranged on the amphitheater plan; each accommodates 225 students. Two are for the ordinary class lecture work, and one for the oral surgery clinic which has a waiting-room for surgical patients, a room for diagnosis and the preparation of patients, and a recovery room with sufficient beds for the temporary care of patients. There are eight recitation rooms, each accommodating thirty-five or more students. Other rooms are the anatomical laboratory, which is placed well apart; the first year and the second year prosthetic laboratories; the laboratory for operative technics and for physics; the laboratory for biology and histology; the laboratory for general pathology and bacteriology; the laboratory for materia medica, and for physiology; the photographic laboratory, the students' reading room, the library and the museum.

A new laboratory for scientific research has been recently equipped with every facility for advance study of the many unsolved problems which confront the dental profession. This laboratory has every convenience for bacteriological study, animal experimentation and the study of human material from the general and oral surgery clinics.

Northwestern University Building is in the transportation center of over three millions of people living within a radius of forty miles, a location especially advantageous for obtaining the great number of clinical patients needed in a dental school.

SITUATION AND SURROUNDINGS

The central location of the school and its convenient access from every point affords many and peculiar advantages to its students. It gives them the widest possible range of choice of residence while attending the school, without inconvenience in coming and going. It also gives the school the widest range of territory from which to draw the extensive clinic so necessary to a great dental school. The patients for this clinic come from all parts of the city of Chicago and its suburbs. The personal influence of the students of the school, each one of whom draws from his own friends and acquaintances, made in and about his place of residence, is an invaluable adjunct to the number who come simply as acquaintances of the school. Patients who come as the friends of students make up the personal clinical practice of the individual student.

In this the out-of-town students seem to be in no respect less favored than the student whose home is in the city. This gaining, and holding, a personal clinical practice under the supervision of the instructors in the clinic rooms has come to be one of the features of this school that has a telling effect upon the after-practice of its students. By this plan of work the student not only learns the theory of practice and the manipulations of practical operations in dentistry, but he passes at once to the work of real experience in building a practice for himself; in gaining that skill in professional comity and personal manner between himself and his patients, which is as necessary to him in after years, in drawing together and maintaining a practice, as his knowledge of dental diseases and his skill in their treatment.

For these reasons the residence of students in groups in widely different portions of the city is favored. This also gives the benefits of a more homelike life, while giving in the aggregate a far better conception of life in a great city and decidedly better opportunity to draw upon its advantages, while shunning the disadvantages of large gatherings of students in a single locality.

Chicago is a great city and gives many opportunities to the student who learns to avail himself of them. Lincoln Park on the north offers, besides its beautiful pleasure grounds, some extensive

botanical gardens and winter conservatories, where all manner of plants may be enjoyed and studied; a fine zoological collection, where a large variety of animal and bird life may be studied, and the Museum of Natural History, in which there is a very large collection of birds, animals and fossil remains of extinct animal life. Jackson and Washington Parks on the south, besides their extensive pleasure grounds, also offer splendid botanical gardens and winter conservatories, while the Field Columbian Museum offers a rare collection of Natural History specimens especially suited for the study of comparative dental anatomy, of modern and ancient skulls and the condition of the teeth in the various races and types of men in different ages. The admission to this museum is free to students on presentation of their matriculation tickets to this school.

The Art Institute of Chicago is located within easy walking distance of the School; it offers many free admission hours, making its cultural opportunities conveniently available.

OTHER LIBRARIES

A number of libraries are accessible to students who have taste for study, or for looking up subjects of scientific or literary interest, or in connection with special studies.

The University library collections offer very abundant facilities for students. They are ample in the number of books adapted to the different schools and are so situated as to be easily accessible; generally within the school buildings. They consist of:

The College collection.

The Law collection.

The Medical collection.

The Pharmacy collection.

The Theodore Menges Library of the Dental School, and

The Theological collection.

CHICAGO LIBRARY (773,403 volumes) is on Michigan Avenue and Washington Street, five minutes' walk from the school. It is one of the finest libraries in the country. Students may receive books from this library when vouched for by responsible persons known to the officials. This library has also many branch offices in different parts of the city, from which books may be received on application. These are convenient to many of the boarding places of students.

THE NEWBERRY LIBRARY is very large (367,015 volumes) and, besides general works, has also a large collection devoted to history. It is on North Clark Street and Walton Place, and may be reached in a ten minutes' walk. This is a reference library and books can be used only in its reading rooms.

THE JOHN CRERAR LIBRARY (368,508 volumes) occupies one and one-half floors in the Marshall Field Building, corner Wabash Avenue and Washington Street. It is devoted mainly to the natural, the physical and the social sciences, with their applications, but has one large room containing medical and dental books and periodicals. It is a most excellent collection of books. It is a reference library, and its books are used only in its reading rooms.

The Faculty

Thomas Franklin Holgate, Ph.D., LL.D., President of the University, *ad interim*.

Thomas Lewis Gilmer, M.D., Sc.D., D.D.S., Dean of the Dental School.

Arthur Davenport Black, M.A., M.D., D.D.S., Junior Dean of the Dental School.

Thomas Lewis Gilmer, M.D., Sc.D., D.D.S., Professor of Oral Surgery.

Edmund Noyes, D.D.S., Professor of Dental Jurisprudence and Ethics.

James Harrison Prothero, D.D.S., Professor of Prosthetic Dentistry.

Twining Brooks Wiggins, M.D., Professor of Physiology; Instructor in Physical Diagnosis.

Ira Benson Sellery, D.D.S., Professor of Orthodontia.

Harry Mann Gordin, Ph.D., Professor of Chemistry.

Eugene Shaw Willard, D.D.S., Professor of Bacteriology and Dental Pathology.

Fred William Gethro, D.D.S., Professor of Operative Dentistry.

Arthur Davenport Black, M.A., M.D., D.D.S., Professor of Special Pathology and Operative Dentistry.

Harry Isaac Van Tuyl, B.S., M.D., D.D.S., Professor of Anatomy.

George Corwin Poundstone, D.D.S., Professor of Materia Medica and Therapeutics.

Herbert Anthony Potts, M.D., D.D.S., Professor of Pathology; Lecturer on Anesthesia; Assistant in Oral Surgery.

William Bebb, M.S., D.D.S., Professor of Comparative Dental Anatomy; Curator of the Museum.

Newton George Thomas, B.A., M.A., D.D.S., Professor of Histology; Assistant Curator of the Museum.

James Leonard Morlan, B.S., D.D.S., Assistant Professor of Operative Dentistry.

Hillis Talley Brown, D.D.S., Assistant Professor of Anatomy.

Robert Edwin Blackwell, D.D.S., Assistant Professor of Operative Dentistry; Superintendent of Clinic.

Ernest Kennedy, D.D.S., Assistant Professor of Prosthetic Dentistry.

Edward H. Hatton, M.D., Special Research Investigator; in charge of Research Laboratory.

Floyd DeWitt Leach, D.D.S., Radiographer and Lecturer in Radiography.

George Buchanan Macfarlane, D.D.S., Chief Clinical Instructor in Operative Dentistry.

George Edward Meyer, D.D.S., Clinical Instructor in Oral Surgery.

- Michael Joseph Buckley, D.D.S., Instructor in Orthodontia.
Charles West Freeman, D.D.S., Instructor in Oral Surgery.
Joseph Emerson Ridgway, D.D.S., Instructor in Prosthetic Dentistry; in charge of Freshman Prosthetic Laboratory.
Roscoe Leaton Stout, D.D.S., Instructor in Prosthetic Dentistry; in charge of Junior Prosthetic Laboratory.
William Graham Skillen, D.D.S., Instructor in Histology; in charge of Freshman Histological Laboratory.
Clare Alexander Alcorn, D.D.S., Instructor in Histology; in charge of Junior Histological Laboratory.
George Herbert Sutphen, Ph.C., Instructor in Chemistry; in charge of Chemical Laboratory.
William Spencer Ryan, M.D., D.D.S., Instructor in Materia Medica; in charge of Materia Medica Laboratory.
Rolfe Tainter, Instructor in Pathology; in charge of Pathology Laboratory.
Walter Nelson Rowley, Assistant in Physiology; in charge of Physiology Laboratory.
Merton Meyne Postle, D.D.S., Instructor in Prosthetic Dentistry.
Earl Todd Young, D.D.S., Instructor in Oral Surgery.
George Bion Denton, M.A., Instructor in English.
Lewis H. Weld, Instructor in Biology.
Rutherford Erwin Gleason, Instructor in Mathematics.
Benjamin H. King, D.D.S., Instructor in Bacteriology.
Jay Kaplan, Ph.C., Instructor in Chemistry.
Charles Edward Wach, Ph.G., D.D.S., Instructor in Materia Medica.
Joseph Benjamin Lyding, D.D.S., Instructor in Special Pathology.
John Daniel Lyding, D.D.S., Instructor in Special Pathology.
Benjamin Sherwin Partridge, D.D.S., Instructor in Operative Dentistry.
Merl Mayo Printz, D.D.S., Instructor in Operative Dentistry.
James Perrie Smith, D.D.S., Instructor in Operative Dentistry.
George Augustus Thompson, D.D.S., Instructor in Dental Pathology.
Horace John Tharp, D.D.S., Instructor in Bacteriology.
Eugene Maginnis, D.D.S., Instructor in Special Pathology.
Christian B. Gurslee, B.S., Instructor in Physics.
Thomas Hubert Renn, M.D., Instructor in Physiology.
Alonzo Smothers, D.D.S., Instructor in Dental Anatomy and Operative Technics.
Henry Randolph Rovelstad, D.D.S., Instructor in Physiology.
Stanley William Clark, D.D.S., Instructor in Orthodontia; Demonstrator in Operative Dentistry.

- Milo Kral, D.D.S., Instructor and Demonstrator in Operative Dentistry.
- Frederick William Merrifield, D.D.S., Instructor and Demonstrator in Operative Dentistry.
- Robert R. Page, D.D.S., Demonstrator in Operative Dentistry.
- Egbert Van Delden Cowan, D.D.S., Demonstrator in Operative Dentistry.
- Earl F. Bommersheim, D.D.S., Demonstrator in Operative Dentistry.
- Alvin Guy Gunter, D.D.S., Demonstrator in Operative Dentistry.
- John T. Shesler, D.D.S., Demonstrator in Operative Dentistry.
- Harold J. Lynn, D.D.S., Demonstrator in Operative Dentistry.
- Oscar Samuel Lunden, D.D.S., Demonstrator in Operative Dentistry.
- William Warren Connolly, D.D.S., Demonstrator in Prosthetic Dentistry.
- Charles G. Sholes, D.D.S., Demonstrator in Prosthetic Dentistry.
- William A. Pollock, D.D.S., Demonstrator in Prosthetic Dentistry.
- William A. Murray, D.D.S., Demonstrator in Prosthetic Dentistry.
- Lloyd Conrad Peterson, D.D.S., Demonstrator in Extractions.
- Louis Henry Ebersold, D.D.S., Examiner of Patients.
- John S. Kellogg, D.D.S., Demonstrator in Prosthetic Technics.
- August Henry Koch, D.D.S., Demonstrator in Prosthetic Technics.
- Lladislaus J. Nalencz-Koniuszewski, D.D.S., Demonstrator in Prosthetic Technics.
- William Joseph Corcoran, Assistant in Pathology.
- Jesse Grayston, M.D., Assistant in Pathology.
- Austin Campbell Stiles, D.D.S., Assistant in Radiography.
- Isadore Miller, D.D.S., Assistant in Chemical Laboratory.
- Clarence Edwin Matteson, Assistant in Physiological Laboratory.
- Alvin Johnson, Assistant in Physics.
- Roy Leutzker, Assistant in Physiology.
- Oscar Blair Moulton, Assistant in Chemical Laboratory.
- Floyd D. Godfrey, Ph.C., Assistant in Chemistry.
- Henry B. Westaby, Assistant in Chemistry.
- Harris Walker McClain, Ph.G., Assistant in Chemistry.
- Irwin Sylvester Oakland, M.S., Assistant in Chemistry.
- Kemp Girard Acker, Assistant in Anatomy.
- Glenn Edwin Cartwright, Assistant in Anatomy.
- Pontus Leander Erickson, M.D., Assistant in Anatomy.
- Hugo Oscar Lager, Assistant in Anatomy.
- Lester Dale Weeks, A.B., Assistant in Histology.
- Otis J. Wall, Assistant in Histology.

Admission and Instruction

ADMISSION

A candidate for admission to the Dental School for the year 1917-1918 may be accepted, subject to the provisions of the following paragraphs—(1) upon presentation of a diploma, or equivalent certificate, from an accredited high school or secondary educational institution which requires four years for the completion of its course, and not less than 15 High School units before graduation; or (2) upon presentation of a certificate of admission, without conditions, to the Liberal Arts department of an accredited university or college; or (3) upon presentation of a certificate from the Committee on Examinations, appointed by the Illinois State Superintendent of Public Instruction, showing that the holder is entitled to not less than 15 High School units of credit. The Committee on Examinations may issue such certificate upon presentation of credentials from schools attended, or upon the passing of written examinations given by the Committee, or both.**

The credential covering the candidate's preliminary education must include not less than 3 units in *English, 1 unit in Algebra, 1 unit in Geometry and 1 unit in Physics. The remaining 9 units may be made up of other subjects included in standard High School courses.

A unit is a course of study requiring daily recitations on one topic for a full school year. No credit amounting to less than $\frac{1}{2}$ unit will be allowed toward the 15 units required. No student will be admitted who carries any conditions in this entrance requirement.

This School will receive no student who is not present within ten days after the opening day of the session in each year, or in case of illness properly certified by the attending physician, within twenty days after the opening day. The record of attendance is kept from the opening day and students who may be admitted at a later day will lose their attendance credit for the intervening period.

Undergraduate students are not received for special courses in dentistry.

Students registering agree thereby to accept the discipline imposed by the Faculty.

**The Illinois law provides that this Committee on Examinations shall charge a fee of ten dollars for each person who presents for examination or for the evaluation of credentials.

*Foreigners from non-English speaking countries, who present more than four units of foreign language, and who can speak, read and write the English language, will be accepted as meeting the requirement in English.

It is desirable that students should register early, since the order of assignment of seats in the lecture halls is based upon the order of registration.

ADMISSION TO ADVANCED STANDING

Students wishing credit for courses parallel to courses required in this School, should bring credentials showing the time spent on these subjects and should present their note books written in these courses. No credit on the dental school course will be allowed for high school chemistry, physics, botany, zoology or biology.

Students who present certificates from other recognized dental schools covering subjects required in this School, may be credited with such studies if their preliminary education was such as would have admitted them to this School as Freshmen, and if the credentials are satisfactory to the Dean and to the professors in the respective departments; but credits are not accepted unconditionally. The Faculty reserves the right to examine any applicant for advanced standing, if in its judgment that should be desirable. When admitted to the Senior class the candidate must do one full year's work in this School.

A student who presents evidence of attendance of not less than one year in a college or university, the standing of which is recognized by a University which is a member of the North Central Association of Colleges and Secondary Schools, and of having completed therein not less than thirty semester-hours, or the equivalent in term-hours, and which included eight semester-hours in chemistry, nine semester-hours in zoology* and five semester-hours in English, may be granted one year of time credit on the four-year dental curriculum and admitted to full second year standing, provided that the student so advanced make up all of the subjects of the first year dental curriculum in which he may not have credit.

Students who have attended Class A medical schools will be given credit for courses which parallel those of this School, and may be given credit for one year of advanced standing in addition to that allowed for Liberal Arts courses, if the total credits for medical courses are equivalent to a full year's requirement of this School. Such students will be required to take all first and second year dental courses for which they do not receive credit.

Examinations for advanced standing and for the removal of conditions in the Dental course will begin on September 24th, 1917—one week before the course begins—and *no make-up examinations will be given at a later time.*

*A course in biology, devoted for the most part to animal biology, may be accepted in place of the course in zoology.

COURSE FOR THE DEGREE OF DOCTOR OF DENTAL SURGERY

The course covers four years. The year begins on the first Tuesday in October and closes on Commencement Day of the University in June. There are not less than thirty-two weeks of actual instruction given, six days in each week.

Graduate students desiring to pursue special studies may be received at any time.

PRACTITIONER'S COURSE

A postgraduate, or practitioner's course has been arranged which begins the first Monday in February of each year and continues through four full weeks. A special announcement of this course will be sent upon request.

COMBINED COURSES

Students who desire to obtain the Bachelor of Science and Doctor of Dental Surgery degrees may enroll on a combined Literary and Dental course, and thus shorten the required time for earning the two degrees from seven to six years. This privilege is open to students who during their first three years have maintained a uniform record of good scholarship. A candidate for the degree of Bachelor of Science who has been a student in the College of Liberal Arts for at least one year may enroll upon the combined course.

Schedule of Courses

FOR THE YEAR 1917-1918

During the session of 1915-1916 the general plan of teaching was changed by the division of classes into small sections for recitation and laboratory periods, in order that the student might receive more thorough instruction and be brought into closer relations with the professors and other instructors. To accomplish this, the building was remodeled to provide necessary additional rooms and laboratory facilities. The teaching staff was also increased in every department.

Students are expected to take the courses in the order enumerated, but some deviation from this rule may be allowed in cases approved by the Faculty.

Each of the departments is presented under the headings as given in the table below, separately and completely, and in alphabetical order, and courses are described fully in the order of the letters.

FRESHMAN YEAR

Anatomy, a, b, c.	Histology, a, b, c.
Biology, a, b, c.	Dental Anatomy, a, b, c.
Chemistry, a, b, c, d.	Physics, a, b, c.
English, a, b.	Prosthetic Dentistry, a, b.

SOPHOMORE YEAR

Anatomy, d, e, f.	Physiology, a, b, c.
Bacteriology, a, b.	Physics, a, b, c.
Chemistry, e, f, g.	Operative Technics, d, e, f.
Histology, d, e, f.	Prosthetic Dentistry, c, d, e, f.

JUNIOR YEAR

Bacteriology, a, b.	Operative Dentistry, g, h, i.
Chemistry, e, f, g.	Oral Surgery, a, b.
Histology, g, h, i, j.	Materia Medica and Therapeutics, a, b, c, d.
Physiology, d, e, f.	Prosthetic Dentistry, g, h, i.
Pathology, a, b.	

SENIOR YEAR

Comparative Dental Anatomy, a, b.	Dental Pathology, n, o, p, q.
Dental Economics, a.	Oral Surgery, c, d, e, f, g, h, i, j, k.
Dental Jurisprudence and Ethics, a.	Orthodontia, a, b, c.
Operative Dentistry, j, k, l, m.	Prosthetic Dentistry, j, k, l.

Schedule

FRESHMAN YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
English	3		96	
Physics	2	3	64	96
Biology	2	4	64	128
Anatomy	1	9 (1 Sem.)	32	144
Chemistry, Inorganic	2	5	64	160
Dental Anatomy	1	5	32	160
Prosthetic Technics		6 (1 Sem.)		96
Histology, General	1 (2d Sem.)	3 (2d Sem.)	16	48
		11 (1st Sem.) 27 (avr.)	368	832—1,200
		12 (2d Sem.)		

SOPHOMORE YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
Anatomy (general and surgical, of Head and Neck).....	1	9 (1 Sem.)	32	144
Histology*	1	3	32	96
Chemistry, Organic and Physiological	1	3	32	96
Physics**	2	3	64	96
Physiology	2	3	64	96
Bacteriology	1	6 (1 Sem.)	32	96
Operative Technics†	1	3 (1st Sem.)	32	48
Prosthetic Technics	1	6	32	192
Clinical Operative Dentistry...		6 (2d Sem.)		96
	10	30 (avr.)	320	960—1,280

*In 1918-19, in Histology, the first semester will be devoted to General Histology, and the second semester to Dental Histology.

**In 1918-19, this course will be omitted in the Sophomore year, as the Freshman class will have this course in 1917-18.

†In 1918-19, the laboratory course in Operative Technics will be 6 hours a week throughout the year.

JUNIOR YEAR

	Hours a week		Hours a year	
	Recitation	Laboratory	Recitation	Laboratory
Chemistry*	1	3	32	96
Histology **	1	3	32	96
Physiology and Physical Diagnosis	1	3 (1 Sem.)	32	48
Pathology	1	3 (1 Sem.)	32	48
Materia Medica	2†	3 (1 Sem.)	48	48
Bacteriology*	1	3	32	96
Operative Dentistry	2		64	
Prosthetic Dentistry	1	3	32	96
Surgical Anatomy (small groups)				16
Extraction Clinic for Divisions of class				10
Clinical Operative and Prosthetic Dentistry		15		480
	10 (1st Sem.)	30 (1 Sem.)	304	1,034—1,338
		9 (2d Sem.)	33 (1 Sem.)	

*In 1918-19, this course will be omitted in Junior year, as it is included in Sophomore year of the new four-year course.

**In 1917-18, this course will be given to both Sophomore and Junior classes, and after that year to Sophomores only. A lecture and laboratory course in Dental Pathology, also lecture courses in Dental Radiography and Comparative Dental Anatomy, will be included in the Junior schedule in 1918-19.

†Two hours a week, first semester; 1 hour a week, second semester.

	SENIOR YEAR			
	Hours a week Recitation Clinic		Hours a year Recitation Clinic	
Dental Pathology	2		64	
Mouth Hygiene	1 (1 Sem.)		16	
Jurisprudence and Ethics.....	1 (1/3 yr.)			
Dental Economics	1 (1/3 yr.)		32	
Dental Radiography*	1 (1/3 yr.)			
Comp. Dental Anatomy*.....	1 (1 Sem.)		16	
Anesthesia*	1 (1 Sem.)		16	
Oral Surgery	1	2	32	64
Operative Dentistry	{ 1 (1 Sem.) } 2 (1 Sem.) }		48	
Prosthetic Dentistry	1		32	
Orthodontia	1		32	
Special Clinics for Divisions of class, in Extraction, Oral Surgery, Periodental diseases, Operative and Prosthetic Dentistry	2	{ for each Division }	64	
Practical Clinical in Ortho- dontia, Operative and Pros- thetic Dentistry	—	32	—	1,024
	9	36	288	1,152—1,440

*In 1918-19, these courses will be given to both Junior and Senior classes, and after that year, to Juniors only.

Anatomy

PROFESSOR VAN TUYL

FRESHMAN YEAR

a. **Lecture-recitation—Osteology of the Entire Body*—Twelve weeks, class divided into sections, each section one hour a week. Professors Van Tuyl and Brown and Dr. Ryan.

b. *Lecture-recitation—Syndesmology and Myology*—Four weeks, one hour a week. Professors Van Tuyl and Brown and Dr. Ryan.

c. *Laboratory—Human Dissections*—The upper and lower extremities and the abdomen are dissected. One semester. Class divided into sections, each section three three-hour periods each week. Professors Van Tuyl and Brown, Dr. Ryan and Assistants.

*For all lecture-recitation courses, lectures are given to the entire class, and the class is divided into sections of about thirty for recitations. As a rule, there are three recitation periods following each lecture.

SOPHOMORE YEAR

d. *Lecture-recitation—Angeology, Neurology, Organs of the Senses and Splanchnology*—Sixteen weeks, one hour a week. Professors Van Tuyl and Brown and Dr. Ryan.

e. *Lecture-recitation—Surgical Anatomy of the Head and Neck*—Sixteen weeks, one hour a week. Professors Van Tuyl and Brown and Dr. Ryan.

f. *Laboratory—Human Dissections*—The Head, Neck and Thorax. Surgical anatomy of the Head and Neck. One semester. Class divided into sections, each section three three-hour periods a week. Professors Van Tuyl and Brown, Dr. Ryan and Assistants.

Bacteriology

SOPHOMORE AND JUNIOR YEARS*

a. *Lecture-recitation—Principles of Bacteriology*—The preparation of culture media; management of laboratory cultures; distinguishing varieties of micro-organisms in laboratory cultures; physiology of micro-organisms; poisons produced by micro-organisms; diseases caused by micro-organisms, particularly those of the teeth and mouth; susceptibility and immunity to diseases. One hour a week throughout the year. Professor Willard and Drs. King and Tharp.

b. *Laboratory*—Preparation of culture media; planting and management of cultures; separation of species in mixed cultures; deriving pure cultures from infected animals; cultures from saliva, from mucous membranes and from carious teeth; staining, mounting, and microscopic studies; diagnosis of unknowns. Class divided into sections, each section three hours a week throughout the year. Professor Willard and Dr. King.

Biology

MR. WELD

FRESHMAN YEAR

a. *Lecture-recitation*—Studies of the properties of living matter; a few selected types of flowering plants and invertebrate animals. First semester, two hours a week. Mr. Weld.

*After the year 1917-18, this course will be given in the Sophomore year only.

b. *Lecture-recitation*—Organic evolution, studies of the development of animals, using eggs of fishes, amphibia and the chick. Second semester, two hours a week. Mr. Weld.

c. *Laboratory*—The course in the laboratory will parallel the lecture-recitation course, and will consist of demonstration experiments and studies by members of the class. Class divided into sections, each section two two-hour periods per week. Mr. Weld.

Chemistry

PROFESSOR GORDIN

FRESHMAN YEAR

a. *Lecture-recitation—General and Inorganic Chemistry*—First semester. Class divided in sections. Two hours a week. Professor Gordin, Mr. Sutphen, Mr. Gurslee, Mr. Kaplan.

b. *Laboratory*—Illustrative experiments in General and Inorganic Chemistry. First semester. Class divided into sections, each section six hours a week. Professor Gordin, Mr. Sutphen and Assistants.

c. *Lecture-recitation—General and Inorganic Chemistry*—Second semester. Two hours a week. Professor Gordin, Mr. Sutphen, Mr. Gurslee, Mr. Kaplan.

d. *Laboratory*—The metals and their compounds. Qualitative chemical analysis of unknown mixtures, particularly bases and alloys. Second semester. Class divided into sections, each section six hours a week. Professor Gordin, Mr. Sutphen and Assistants.

SOPHOMORE AND JUNIOR YEARS*

e. *Lecture-recitation—Organic Chemistry*—First semester, one hour a week. Professor Gordin, Mr. Sutphen, Mr. Gurslee, Mr. Kaplan.

f. *Lecture-recitation—Organic and Physiological Chemistry*—Second semester, one hour a week. Professor Gordin, Mr. Sutphen, Mr. Gurslee, Mr. Kaplan.

g. *Laboratory*—Quantitative chemical analysis of dental alloys, etc. Refining of gold, silver and other metals. Laboratory study of cements and other filling materials. Assay of dental alloys for

*After the year 1917-18, this course will be given in the Sophomore year only.

gold, silver, tin, platinum. Practical problems of dental chemistry. Illustrative experiments in Organic Chemistry. Analysis of saliva. Urine analysis. Class divided into sections, each section three hours a week. Professor Gordin, Mr. Sutphen and Assistants.

Comparative Dental Anatomy

PROFESSOR BEBB

SENIOR YEAR

a. *Lecture—Evolution*—The meaning of similarity of structure; natural selection; changes in organs; correlation of growth between parts; principles of heredity and of fixity of species; tooth forms; definitions and descriptions of the varieties of forms; the typical mammalian dentation; classification of the animal kingdom, with concise descriptions of the typical characteristics of each. One semester. On lecture or recitation a week. Professor Bebb.

b. *Laboratory*—Small groups in the Museum for study of specimens.

Dental Economics

PROFESSOR BLACK

SENIOR YEAR

a. *Lecture—Dental Economics*—This course embraces practice building, methods of obtaining and retaining patients, business relations between the dentist and his patients, fees, accounts, records of operations, presentation and collection of accounts, methods of economy in the conduct of an office. Ten weeks. One lecture a week. Professor Black.

Dental Jurisprudence and Ethics

PROFESSOR NOYES

SENIOR YEAR

a. *Lecture—Ethics*—Elementary principles of ethics; professional ethics; state laws relating to dentistry; Illinois dental law; dental jurisprudence; general review. One lecture a week. Twelve weeks. Professor Noyes.

English

DR. DENTON

FRESHMAN YEAR

a. *Lecture-recitation*—Composition and rhetoric. Study of the composition as a whole; the paragraph; the sentence; grammar and punctuation; themes. First semester, three hours a week. Dr. Denton.

b. *Lecture-recitation*—Types of literature; the drama; the essay; the novel. Second semester, three hours a week. Dr. Denton.

Histology

PROFESSOR THOMAS

FRESHMAN YEAR

a. *Lecture-recitation*—The construction and use of the microscope. A study of cell structure and functions; the elementary tissues. Epithelium, connective tissues, nerve, lymphatic tissue. Second semester, one hour a week. Professor Thomas, Drs. Skillen and Alcorn.

b. *Laboratory*—A laboratory study of the subjects of the lecture course. Class divided into sections, each section one three-hour period a week, second semester. Professor Thomas, Dr. Skillen.

c. *Recitations*—During laboratory hours throughout the year.

SOPHOMORE YEAR*

d. *Lecture-recitation*—The construction and the use of the microscope. A study of cell structure and functions; the elementary tissues; histology of the organs; circulatory, lymphatic, alimentary tract, and accessory glands, respiratory system, urinary organs, and skin. One hour a week throughout the year. Professor Thomas, Drs. Skillen and Alcorn.

e. *Laboratory*—A laboratory study of the subjects of the lecture course. Class divided into sections, each section one three-hour period a week throughout the year. Professor Thomas, Dr. Skillen.

f. *Recitations*—During laboratory hours throughout the year.

*Note: In 1918-19, the first semester of the Sophomore year will be devoted to the continuation of general histology, begun in the second semester of the Freshman year during 1917-18. The second semester of the Sophomore year, 1918-19, will be devoted to dental histology.

JUNIOR YEAR

g. *Lecture-recitation*—*The Dental Tissues*—Enamel; the periodontal membranes; periosteum; bone; mucous membranes and other soft tissues of the mouth. One and two-thirds semesters. One hour a week. Professor Thomas and Assistants.

h. *Lecture-recitation*—*Embryology*—One hour a week. One-third of a semester. Professor Thomas, Drs. Skillen and Alcorn.

i. *Laboratory*—A laboratory study of the subjects of lecture courses g and h. Class divided into sections, each section one three-hour period a week throughout the year. Professor Thomas, Drs. Skillen and Alcorn.

j. *Recitations*—During laboratory hours throughout the year.

Materia Medica and Therapeutics

PROFESSOR POUNDSTONE

JUNIOR YEAR

a. *Lecture-recitation*—The sources and various forms of drugs; general and local action of drugs; agencies that modify the action of drugs; the art of prescribing medicines; a critical study of about one hundred drugs, classified according to their therapeutic and toxic action. Medication for dental purposes. First semester. Two hours a week. Second semester. One hour a week. Professor Poundstone, Dr. Ryan, and Mr. Smothers.

b. *Theses*—Each student is required to write five theses, of not less than three hundred words each, on subjects assigned.

c. *Laboratory*—Study of the origin and preparation of various drugs; prescription writing; dispensing; reactions, antidotes for poisons, etc. Class divided into sections, each section three hours a week during one semester. Professor Poundstone and Dr. Ryan.

d. *Clinical Practice*—The Infirmary is open to second year students for the observation of conditions requiring the use of drugs and for clinical practice in their treatment. Each student is required to make one hundred points in clinical experience. See also dental pathology and therapeutics.

Operative Dentistry and Dental Pathology

PROFESSOR BLACK, PROFESSOR GETHRO, PROFESSOR WILLARD,
PROFESSOR MORLAN, DR. BLACKWELL

DENTAL ANATOMY

FRESHMAN YEAR

a. *Lecture-recitation—Descriptive Anatomy of the Human Teeth*—Nomenclature. Twenty weeks. One hour a week. Drs. Blackwell and Smothers.

b. *Lecture-recitation*—Studies of the maxilla and mandible, with especial attention to the surgical anatomy. Twelve weeks. One hour a week. Drs. Blackwell and Smothers.

c. *Laboratory*—Studies of the forms of individual teeth; carving the tooth forms in bone or ivory; dissections and studies of the internal parts—pulp chambers and root canals. Studies and dissections of the maxilla and mandible. Class divided into sections, each section two two-and-a-half-hour periods a week throughout the year. Drs. Blackwell and Smothers and Assistants.

OPERATIVE TECHNICS*

SOPHOMORE YEAR

d. *Lecture-recitation — Instruments and Instrumentation* — A study of instrument forms, instrument construction, and the adaptation of instruments to the excavation of cavities. *Cavity Nomenclature*—A study of the location of cavities in extracted teeth, of the forms of prepared cavities, and of the use of instruments in their preparation. *Filling Materials and Filling Teeth*—Studies of filling materials, their physical properties and manipulation. *Oral prophylaxis*—Studies of instruments and manipulation. One hour a week throughout the year. Drs. Blackwell and Smothers.

e. *Laboratory*—Study of instrument forms; a set of forty-eight excavators made to millimeter scale in brass; preparation of cavities and the placing of fillings in extracted human teeth, ivory or bone. Class divided into sections. Each section two two-and-a-half-hour periods a week throughout the year. Drs. Blackwell and Smothers.

*In 1917-18, this course will consist of 1 lecture per week throughout the year, and 2 laboratory periods a week for one semester.

f. *Operative Clinic*—Open to Sophomore students six hours a week during the second semester. Operations amounting to one hundred points in Oral Prophylaxis are required.

OPERATIVE DENTISTRY

JUNIOR YEAR

g. *Lecture-recitation—Technical Procedures in Cavity Preparation*—Cavity nomenclature; cavity preparation; principles, instruments and appliances, and instrumentation; cavity preparation, by classes of cavities. First semester. Two hours a week. Professor Morlan, Drs. Printz and Partridge.

h. *Lecture-recitation—Technical Procedures in Filling Teeth*—Filling materials; instruments and instrumentation, physics of filling operations, and of finishing fillings. Filling with gold foil, gold inlays, amalgam, cements, gutta-percha. Exposure and removal of dental pulp. Preparation and filling of root canals. Second semester. Two hours a week. Professor Morlan, Drs. Printz and Partridge.

i. *Operative Clinic*—Open to Junior students fifteen hours a week during the entire year. Operations amounting to one hundred points required in gold fillings, one hundred points in gold inlays and one hundred points in amalgam fillings. Credit points are given for fillings ranging from one to ten points. The location of the cavity, the operative difficulties encountered, and the excellence of the completed operation determine the amount of points earned in each case. Professor Black, Professor Gethro, Professor Morlan, Dr. Blackwell and Assistants.

SENIOR YEAR

j. *Lecture-recitation—Review of Technical Procedures in Filling Teeth—The Hard Tissues of the Teeth*—Studies of the dystrophies of the enamel, of erosion, abrasion, and dental caries; caries of enamel; caries of dentin; inception and progress of dental caries; conditions of the beginning of dental caries; systemic causes of dental caries; susceptibility from and immunity to dental caries; vital phenomena in dental caries; hyperesthesia of dentin; treatment of dental caries; curative effect of fillings; selection of filling materials. First semester. One hour a week. Professor Gethro, Drs. Smith and Kral.

k. *Lecture-recitation*—The force used in mastication in relation to operative procedures; treatment of dental caries; management of cavities by classes; "extension for prevention" and its limitations; esthetic considerations; the deciduous teeth, their pathology and treatment; the childhood period of the permanent teeth; management of patients. Second semester. One hour a week. Professor Gethro, Drs. Smith and Kral.

l. *Lecture—Inlay Technique*—Historical review of various methods of filling teeth; gold inlays; porcelain inlays; silicious cements, oxyphosphate cements. First semester. One hour a week. Professor Gethro.

m. *Operative Clinic*—Open to Senior students daily throughout the year. Operations amounting to two hundred points are required in gold fillings, two hundred points in gold inlays and two hundred points in amalgam. Professors Black, Gethro, Morlan, Dr. Blackwell and Assistants.

DENTAL PATHOLOGY AND THERAPEUTICS

SENIOR YEAR

n. *Lecture-recitation—Pathology and Treatment of the Gingivae and Peridental Membrane*—Review of histological structures and physical functions of tissues; historical review of diseases and treatment; studies of salivary calculus; gingivitis and pericementitis due to deposits of salivary calculus; gingivitis due to deposits of serumal calculus; gingivitis caused by injuries; chronic suppurative pericementitis; systemic effects of chronic infections of the mouth. One hour a week throughout the year. Professor Black, Drs. J. D. Lyding and G. A. Thompson.

o. *Lecture-recitation—Pathology and Treatment of the Dental Pulp*—Review of histological structure and functions; hyperemia and inflammation, obtunding sensitive dentin; devitalization; removal; treatment of canals; root filling; aseptic technique; alveolar abscess; chronic osteitis; necrosis of bone; studies of antiseptics and their effect on the tissues; bleaching teeth. One hour a week throughout the year. Professor Willard, Drs. J. B. Lyding and Maginnis.

p. *Lecture—Oral Prophylaxis and Mouth Hygiene*—Preventive measures which may be employed by both dentist and patient. Mouth hygiene technique. The relation between operative and prosthetic procedures to the diseases of the soft tissues. Teaching of mouth hygiene technique in public schools, and dental service in public

schools and eleemosynary institutions. Second semester. One hour a week. Professor Black.

q. *Clinical Practice*—In addition to the above courses, senior students are required to make two hundred points in practical treatments in the clinic.

Oral Surgery

PROFESSOR GILMER

JUNIOR YEAR

a. *Surgical Anatomy*—In small groups, sixteen hours. Dr. Meyer.

b. *Extraction Clinic*—Each section two hours a week for five weeks. Dr. Freeman.

SENIOR YEAR

c. *Lecture-recitation*—Surgical bacteriology; inflammation; suppuration; wounds; hemorrhage; necrosis; chronic osteitis; disease of the maxillary sinus, resection of roots; tetanus; ankylosis; arthritis; facial neuralgia; fractures; dislocations; extraction of teeth; malposition of third molars; impacted teeth; replantation, transplantation, and implantation of teeth; cleft palate and harelip; affections of the lips, tongue and mouth; tumors; odontomes; ranula; cysts; aneurisms. One hour a week throughout the year. Professor Gilmer, Drs. Freeman and Young.

d. *Surgical Clinic*—Two hours a week throughout the year. Professor Gilmer, Professor Potts, Dr. Meyer, Assistants and nurses from St. Luke's Hospital.

e. *Special Clinical Instruction*—Diagnosis and case histories. One hour a week. Dr. Meyer and Assistants.

f. *After-Treatment of Surgical Cases*—By students, under direction of Professor Gilmer.

g. *Clinic in the Extraction of Teeth*—Special extraction clinic for each section, one hour a week for five weeks. Dr. Freeman.

h. *Lecture—Anesthetics*—Historical review; state of the patient; nature of operation; choice of anesthetic; prolonged dental operations; circumstances of administration; examination of patients; general anesthetics; local and regional anesthetics, dangers of anesthesia; ether, chloroform, nitrous oxid; nitrous oxid and oxygen for anesthesia and analgesia; conductive anesthesia. Second semester. One hour a week. Professor Potts.

i. *Clinical Administration of Anesthetics*—Oral surgery clinic. Two hours a week. Professor Potts' and Assistants.

j. *Clinical Exhibition of Nitrous Oxid Anesthesia*—Daily in extracting clinic. Dr. Freeman.

k. *Radiography*—Eight lectures and daily clinical instruction. Dr. Leach.

Orthodontia

PROFESSOR SELLERY

SENIOR YEAR

a. *Lecture-recitation—Occlusion and Facial Art*—Etiology, classification, diagnosis of malocclusion. The alveolus and alveolar processes, the periodontal membranes, and use of models. First semester. One hour a week. Professor Sellery, Drs. Buckley and Clark.

b. *Lecture-recitation—Regulating Appliances, Angle, Guilford, Knapp*—Anchorage, jack screws, levers, traction screws, extension arch and combinations, split plates, reciprocal anchorages, retention. Illustrated with models, with movable teeth and enlarged appliances. Stereopticon views, illustrating progressive regulation and final fixation. Second semester. One hour a week. Professor Sellery, Drs. Buckley and Clark.

c. *Clinic*—Open to students throughout the year for the correction of cases in practice. Professor Sellery, Dr. Buckley, and Assistants.

Pathology, General

PROFESSOR POTTS

JUNIOR YEAR

a. *Lecture-recitation—Etiology of Disease*—Disorders of nutrition and metabolism; diabetes; fever; general circulatory disturbances; local hyperemia; local anemia; hemorrhage; embolism; infarction; thrombosis; retrogressive processes; atrophy; infiltrations and degenerations; necrosis; inflammation; progressive tissue changes; neoplasms; infections; granulomata; bacteria, and diseases caused by them. One hour a week throughout the year. Professor Potts, Mr. Tainter and Mr. Corcoran.

b. *Laboratory*—Second semester. Class divided into sections, each section three hours a week. Recitations during laboratory hours. Professor Potts, Mr. Tainter, Mr. Corcoran and Dr. Grayston.

Physics

MR. C. B. GURSLEE

FRESHMAN AND SOPHOMORE YEARS*

This course in general physics is the same as the first year of college physics. As a preparation for it, the student must have a good understanding of high school physics. The first few weeks of the course will be devoted to selected problems in algebra and trigonometry.

a. *Lecture-recitation*—Kinematics, general properties of matter, special properties of matter, waves, sound, heat. First semester, two hours a week. Mr. C. B. Gurslee.

b. *Lecture-recitation*—Magnetism, electricity, light, optical instruments. Second semester, two hours a week. Mr. C. B. Gurslee.

c. *Laboratory*—Studies of the subjects covered in the lecture-recitation course. A portion of each period will be devoted to lecture or recitation, the remainder to exercises assigned. One three-hour period each week throughout the year. Mr. C. B. Gurslee.

PROBLEMS IN DENTAL PHYSICS

A number of important problems in dental physics will be included in the courses in operative and prosthetic dentistry. These will include measurements of the force of the bite, the force required to chew various foods, tests of finger power, the force required to condense cohesive gold, the hardness of various filling materials, shrinkage and expansion of amalgams, shrinkage and expansion of plaster, the force used in closing flasks, etc.

Physiology

PROFESSOR WIGGIN

SOPHOMORE YEAR

a. *Lecture-recitation*—The structure of the elementary tissue; the chemical composition of the body; the blood; the circulation of the blood. First semester. Two hours a week. Professor Wiggin, Drs. Rovelstad and Renn.

b. *Lecture-recitation*—*Respiration*—Secretion; food digestion; metabolism; nutrition and diet; animal heat; excretion; muscle; nerve

*After the year 1917-18, this course will be given in the Freshman year only.

physiology; production of voice. Second semester. Two hours a week. Professor Wiggin, Drs. Rovelstad and Renn.

c. *Laboratory*—Studies of muscles, circulation and respiration. Class divided into sections, each section one three-hour period a week throughout the year. Professor Wiggin, Mr. Rowley, and Assistants.

JUNIOR YEAR

d. *Lecture-recitation*—*The Central Nervous System*—Brain; spinal cord; reproductive organs; development. One hour a week throughout the year. Professor Wiggin, Dr. Rovelstad and Mr. Rowley.

e. *Laboratory*—Class divided into sections, each section one three-hour period throughout one semester. Professor Wiggin, Mr. Rowley and Assistants.

f. *Physical Diagnosis*—Class divided into small sections, each section one hour a week during four weeks. Professor Wiggin.

Prosthetic Dentistry

PROFESSOR PROTHERO

FRESHMAN YEAR

a. *Lecture-recitation*—*Prosthetic Technics*—This course covers the fundamental principles of denture construction and crown and bridge work, and accompanies the laboratory course. One semester. Professor Prothero and Dr. Ridgway.

b. *Laboratory*—Impression taking, model constructing, occluding, waxing, flasking; packing, vulcanizing, and finishing partial and full artificial dentures. One semester. Class divided into sections, each section six hours a week. Professor Prothero, Dr. Ridgway, and Assistants.

SOPHOMORE YEAR*

c. *Lecture-recitation*—*Prosthetic Technics*—This course covers the fundamental principles of denture construction and crown and bridge work, and accompanies the laboratory course. First semester. One hour a week. Professor Prothero, Drs. Ridgway and Stout.

*The work of the first semester of the Sophomore year, 1917-18, is given to the Freshman in the second semester, therefore in 1918-19 the Sophomore class will take during the first semester the work here scheduled for the second semester, and the first semester's work of the Junior year will be advanced to the second semester of the Sophomore year.

d. *Laboratory*—Impression taking, model constructing, occluding, waxing, flasking; packing, vulcanizing, and finishing partial and full artificial dentures. First semester. Class divided into sections, each section six hours a week. Professor Prothero, Dr. Ridgway, and Assistants.

e. *Lecture-recitation—Metallography*—A descriptive course on the nature and physical properties of metals, especially those used in dentistry, with fundamental principles of their uses; the manipulation of metals, swaging, annealing, solders, and soldering, welding, tempering. Second semester. One hour a week. Professor Prothero, Drs. Ridgway and Stout.

f. *Laboratory*—Construction of dies and counter dies; swaging metal bases of German silver; attaching teeth by soldering and by vulcanite; construction of crowns and dummies, all metal, and metal and porcelain; assembling individual crowns and dummies to form bridges; constructing and tempering taps and dies of steel; drawing wire and tubing suitable for the construction of orthodontia appliances. Second semester. Class divided into sections, each section six hours a week. Professor Prothero, Dr. Ridgway, and Assistants.

JUNIOR YEAR

g. *Lecture-recitation*—Review of technique principles outlined in previous courses; application to practical operations in the clinic. The physical properties of plaster of Paris and other materials employed in prosthesis. Muscles of mastication; force of the bite; movements of the lower jaw; natural arrangement and occlusion of artificial teeth. One hour a week. Professor Prothero, Drs. Stout and Ridgway.

h. *Laboratory*—Construction of full metal and partial metal base dentures, with teeth attached by soldering and by vulcanite; construction and application of clasps to partial dentures; advanced work in crowns and bridges. Class divided into sections, each section three hours a week. Professor Prothero, Dr. Stout, and Assistants.

i. *Prosthetic Clinic*—Each student is required to carry to completion for patients a number of practical cases, representing each of the various classes of prosthesis, amounting to at least one hundred points in crowns and bridges and one hundred points in denture construction work. Professor Prothero, Professor Kennedy, and Assistants.

SENIOR YEAR

j. *Lecture-recitation*—Summary of recent methods and appliances; application of porcelain in prosthesis; porcelain crowns; porcelain bridges, full porcelain dentures; gold casting applied to crowns and bridges; removable bridges; repairs of crowns and bridges; review of anatomical occlusion; cleft palate appliances, splints for fractures. One hour a week. Professor Prothero, Professor Kennedy and Dr. Postle.

k. *Laboratory*—Cast aluminum base dentures; celluloid dentures; banded Logan crowns; baked porcelain crowns; porcelain bridges; continuous gum dentures. Professor Prothero, Professor Kennedy, Dr. Pollock, and Assistants.

l. *Prosthetic Clinic*—Practical pieces of prosthetic work of all varieties made and fitted for patients in the clinic. The preparation of roots for crowns and the abutments of bridges; making and setting crowns and bridges. The minimum requirement is two hundred points in crowns and bridges and two hundred points in dentures. Professor Prothero, Professor Kennedy, and Assistants.

Clinics

The Operative, Prosthetic, Orthodontia, Extraction and Radiographic clinics are open to students' practice from 9 A.M. to 5 P.M. each week day during the school year, as well as during the summer vacation. There is at all times an abundant number of patients. It is the intention that this clinical practice shall be as much like an actual dental practice as possible. The development of the ability to obtain and hold a practice, the observance of professional courtesy toward patients, so essential to success, is regarded equal in importance to the development of manipulative ability.

General Statements

REQUIREMENTS FOR DEGREE

The degree of Doctor of Dental Surgery is conferred upon students recommended therefor by the Faculty of the School. Candidates are recommended who have attended the required courses of lectures, who have passed satisfactorily all required examinations in the subjects of study; who have completed the required clinical and laboratory work; who in the judgment of the Faculty are of fit moral

character and are 21 years of age; and who have discharged in full all financial obligations to the University.

THE LIBRARY AND READING ROOM

The Library and the adjoining Reading Room occupy, together with the attached Journal Reading Room, 3,800 feet of floor space. It is furnished with reading tables and chairs for about one hundred students. The Library contains 3,338 volumes of books on dental and collateral subjects; a fine supply of dictionaries and encyclopedias conveniently placed in the Reading Room for easy consultation; and a nearly complete list of the dental journals that have been published in the English language, with about 25,000 duplicate numbers. The books most used by the students are duplicated, up to six or twelve, and a few to fifteen copies. The books and journals may be used in the Reading Room without restriction, and when the duplication of volumes will allow, they may be drawn out as a circulating library. The library will be open every week day and evenings during the school year until ten o'clock excepting Saturday evenings.

THE MUSEUM

The Museum is open to inspection and study. The cases are arranged to show the specimens to the best advantage.

Recently the very extensive private collection of Dr. William Bebb has been added to the Museum under the title of the Bebb Collection. This collection consists of paleontological and modern animal and human bones, skeletons and skulls; many varieties of preserved fur animals, and a very choice collection of ancient and modern-obsolete dental instruments, tools and equipment; many volumes of rare old books on dentistry in various languages; and engravings, paintings, lithographs and cartoons illustrative of the development of dentistry.

All of these have been arranged in most attractive manner for exhibition and study. It is believed that the Museum itself and its masterly arrangement by Dr. Bebb's skilled hands is one of the best of its kind in this country.

The comparative anatomy specimens are, with the exception of the gorilla and chimpanzee, of which there are full skeletons, heads with the teeth. There is a sufficient number of varieties of each of the several orders to afford specimens of every kind of tooth form and of every variety of placement in mammals, saurians, and snakes, with a large variety of fishes.

The principal specimens of human skulls are, first, an excellent mounting of the separated bones of the adult; second, a fine set of dissections in a series showing the development of the teeth and the roots from the first appearance in the fetus to the full adult development, and illustrating the absorption of the roots of the deciduous teeth, the shedding process, and the replacement by permanent teeth; also the absorption of the alveolar processes after the loss of teeth, with the changes that occur in the form of the bones of the jaws from childhood to old age. This is an exceptionally complete and valuable set of specimens. There is also a variety of ordinary human skulls.

The Museum contains also a valuable collection of human teeth of abnormal forms; a very full and complete set of specimens illustrating interproximal wear and the flattening of the points of interproximal contact. It is especially rich in casts of cases of supernumerary teeth; some illustrations of the very early forms of artificial teeth, of manufactured porcelain teeth, and of dental instruments, illustrating the development in these lines. This collection has been made in the School largely by students and by alumni, and is being continually increased by donations from those who have met with specimens unusual or rare in practice. Such donations are requested from all practitioners to assist in building up this great museum of abnormal conditions of teeth and of associated parts for the benefit of dental education.

It also contains a most complete representation of the progress of Dental Hygiene and Prophylaxis as represented by the progressive steps of the development of the tooth brush, and a complete collection of dental instruments and appliances now obsolete in modern practice of dentistry.

HONORS

A dental scholastic honor society, the Omicron Kappa Upsilon, has been formed upon the initiative of Northwestern University Dental School.

Membership is awarded to students who throughout their dental course have met every requirement without condition or failure, and whose record of grades earned during their entire course gives them highest rank. Only twelve per cent of the graduating class of each year can achieve the honor of such membership.

SUMMER CLINICS

The clinic rooms will be open all the year for the benefit of students who may wish to gain greater experience in clinical practice

under competent supervision. The number of demonstrators during the summer will be ample for the class that may choose to remain at the school. The clinical material is abundant, and an excellent opportunity is afforded for clinical practice.

CLINICAL MATERIAL

The value and adequacy of the clinical instruction and experience in practice to students is inestimable. The extent of it can be best understood by an examination of the subjoined condensed tabular statement, extracted from the Examiner's report for the year 1916, showing the number of persons applying for clinical service.

1916	GENERAL	SPECIAL	TOTAL
January	801	837	1,638
February	877	686	1,563
March	918	895	1,813
April	800	737	1,537
May	634	373	1,007
June	531	196	727
July	584	167	751
August	730	213	943
September	467	91	558
October	1,183	1,220	2,403
November	856	1,031	1,887
December	800	752	1,552
	9,181	7,198	16,379

The special patients are assigned to such students of their acquaintance as they ask to have take care of their cases, while the general patients are assigned by the Examiner to such students as need the particular experience and practice that their cases involve. Many of these general patients have come to the school for a number of years and continue to come in the same manner as they would go to the office of a dental practitioner. The school has thus acquired a very large clinic, really large enough for the instruction of a fairly large class of students, but the students are encouraged to have their friends ask for their especial services, as a step in the direction of the teaching of practice building.

The operations performed for these 16,379 patients during the year were 88,371 in the Operative, 5,692 in the Prosthetic; 379 in the Oral Surgery and 2,178 in the Orthodontia Department; a total

of 96,620 separate operations. Among the operations performed in the Operative Clinic were:

- 18,684 fillings of all descriptions.
- 4,315 root fillings.
- 1,116 pulps devitalized.
- 1,915 pulps removed under cocain.
- 1,081 dead pulps removed.
- 354 other pulp treatments.
- 356 root canal treatments.
- 145 alveolar abscess treatments.
- 10 cases of apical pericementitis treated.
- 73 cases of chronic suppurative pericementitis treated.
- 3 bleachings.
- 6,176 cases of removal of calcareous deposits.
- 17,603 cases of extraction.
- 617 cases of administration of general anesthetics.
- 3,770 cases of administration of local anesthetics.
- 1,882 cast gold inlays.

In the Prosthetic Department were made and inserted:

- 345 gold and porcelain bridges.
- 484 shell crowns.
- 128 Richmond crowns.
- 253 banded Logan and cast base Davis crowns.
- 397 plain Logan or Davis crowns.
- 1,634 artificial dentures.

There were 1,230 plates, crowns and bridges repaired.

Of the 1,634 artificial dentures inserted there were:

- 27 gold plates.
- 16 aluminum plates.
- 1,577 vulcanite plates.
- 12 Watts' metal.
- 2 continuous gum plates.

TEXT-BOOKS

Text-books and reference books will be on sale in the Library of the school at publishers' prices. There will be a small profit from the sale of these books, which will be used for the benefit of the library. Each student will be required to have the books designated below before participating in either recitation or laboratory exercises. The Reference books are in the library and may be used as needed.

FRESHMAN YEAR

Anatomy—Cunningham.
Cunningham's Dissecting Manual, Vols. 1 and 2.
Dental Anatomy—Black.
Operative Dentistry—Black.

Prosthetic Dentistry—Prothero.
Inorganic Chemistry—Gordin.
Exercises in Chemical Laboratory—McPherson & Henderson.
Histology—Bailey (1914).
Biology.
College Algebra—Fite.
Trigonometry—Böcher & Gaylord.
Freshman English—Young.
The English Familiar Essay—Bryan and Crane.
Medical Dictionary—Stedman.

SOPHOMORE YEAR

Anatomy—Cunningham. (Same as Freshman year.)
Cunningham's Dissector—Head, Neck and Thorax.
Operative Dentistry—Black. (Same as Freshman year.)
Prosthetic Dentistry—Prothero. (Same as Freshman year.)
Histology—Bailey. (Same as Freshman year.)
Physiology—Stewart.
Chemistry, Organic—Gordin.
General Physics—Crew.
Medical Dictionary—Stedman. (Same as Freshman year.)

JUNIOR YEAR

Bacteriology—McNeal.
Operative Dentistry—Black. (Same as Freshman year.)
Prosthetic Dentistry—Prothero. (Same as Freshman year.)
Physiology—Stewart. (Same as Sophomore year.)
Materia Medica—Prinz.
Pathology—Adami & McCrea.
Chemistry, Organic—Gordin.
Dental Histology and Embryology—Noyes.
Physical Diagnosis—Cabot.

SENIOR YEAR

Operative Dentistry—Black. (Same as Freshman year.)
Prosthetic Dentistry—Prothero. (Same as Freshman year.)
Dental Pathology—Black.
Oral Surgery—Blair.
Orthodontia—Angle.
Dental Ethics and Jurisprudence—Noyes.
Anesthesia—Hewett.
Comparative Dental Anatomy—Underwood.

REFERENCE BOOKS

American System of Dentistry.
Manual of Plate Work—Haskell.
Crown and Bridge Work—Evans.
Diseases and Injuries of the Teeth—Smale and Colyer.
Principles of Surgery—Senn.
The American Text-Book of Prosthetic Dentistry—Essig or Turner.
The American Text-Book of Operative Dentistry—Kirk.
Micro-Organisms of the Human Mouth—Miller.
Micro-Organisms—McFarland.
Dental Pathology and Pharmacology—Burchard.
Long's Chemistry.
Gray's Anatomy.
Comparative Dental Anatomy—Tomes, Thompson.
Regional Anatomy of the Head and Neck—Eckley.
Anatomy—Morris, Eckley.
Histology—Piersol, Stohr, Lewis, Sobotta.
Materia Medica—Stevens, Butler.

INSTRUMENTS

The instruments essential to the students in the several departments of the school have been carefully studied and determined. Much care has been taken in the selection of the instrument sets that the variety of forms may be sufficient for the student's needs without being excessive. Close study of this subject and long, careful observation of students and the progress they make in the attainment of manipulative skill show their progress to be closely related to their instrument equipment. Therefore this school must demand that the instrument sets *required* be obtained by each student as a condition to his continuance in school work.

In operative dentistry it is found that a close adherence to the formula plan, in the study of cutting instruments particularly, is essential in teaching the important subject of cavity preparation, and this will be carried out critically in all the departments of the school. This teaching is begun in the technic classes and the same lines of instruction are followed progressively by teachers and demonstrators in all of the departments to the end of the Senior year, the same instrument sets being used throughout the course of study.

In prosthetic dentistry and in the several laboratories a similar care as to instruments is maintained.

The instruments in the list are *required* because they are essential to the student's progress, and students must provide them. *Students should not bring with them, nor purchase, instruments of other patterns, for they cannot be received as equivalents of the required sets.* They are the same as those that have been required in former years. No student is required to make changes in his instrument sets during his four years' course, and these instruments form his instrument equipment for entering practice after graduation.

INSTRUMENTS AND APPLIANCES ARE REQUIRED to be of form and quality approved by the school. For the year 1917-18 the School has arranged with several reliable Dental Supply Houses to furnish the required equipment for each class in sealed packages, and these packages will be delivered through, or checked by, a representative of this School. Each student will be required to present a card from the proper official of the school showing that he has his complete equipment, before he will be permitted to participate in either recitation or laboratory exercises. This card may be obtained on or after September 24, 1917.

INSTRUMENTS REQUIRED IN 1917-1918

FRESHMAN YEAR

OPERATIVE.

CUTTING INSTRUMENTS.

BIN-ANGLE CHISELS.	STRAIGHT CHISELS.
20-9-6	20
15-8-6	15
10-6-6	10

SPOONS.

Right, 20-9-12	Left, 20-9-12
Right, 15-8-12	Left, 15-8-12
Right, 10-6-12	Left, 10-6-12

SIDE INSTRUMENTS.

CLEOID.	DISCOID.
20-2-12	20-3-12

ACCESSORIES.

- 1 Explorer, No. 3.
- 1 Hand Mallet, No. 5.
- 1 Arkansas Stone, 2x5x $\frac{3}{8}$ inches.
- 1 Bottle of Oil.
- 3 boxes Tapered Polishing Strips, coarse, medium and fine grits.
- 2 Broach Holders, metal handles.
- 1 Alcohol Lamp with Annealing Tray.
- 1 Lowell Pin Vise.
- 1 Boley Millimeter Gauge.
- 1 Pocket Lens, two glasses.

SPECIALS FOR FRESHMEN.

NOT REQUIRED AFTER THE FRESHMAN YEAR.

- 1 Work Box.
- 1 Card Board arranged for Tooth Sections.
- 1 set (6) Ivory Carving Blocks.
- 12 small Wood Blocks for Mounting.
- 1 Stick Black Sealing Wax.
- 1 piece Brass Tubing for cleaning files, $\frac{3}{8}$ x6 inches.
- 1 Instrument Roll.
- 1 package Barbed Root Broaches, assorted.
- 1 package Smooth Broaches.
- 1 box Piano Wire, length 6 in., gauge 25.
- 1 Grobet File, half round, 5 in., No. 1.
- 1 Grobet File, half round, 5 in., No. 3.
- 1 Straight Chisel 50.
- 1 Book Transparent Water Colors.
- 2 Camel's Hair Brushes, No. 1 and No. 7.
- 2 Carborundum Stones, Nos. 307, 310, coarse grit.
- 2 Fissure Burs, sizes 16 and 20.

PROSTHETIC.

- 1 Plaster Bowl, "B."
- 1 Plaster Spatula, No. 17.
- 1 each Impression Trays, Uppers, Nos. 2, 3, 22.
- 1 each Impression Trays, Lower, Nos. 3, 15, 25.
- 1 Snow New Century Occluding Frame.
- 1 Snow's Face Bow.
- 3 Snow's Bite-locks.
- 1 box Pink Wax.
- 1 Prothero's Wax Spatula.
- 1 Iron Vulcanite Flask, large size.
- 1 Flask Wrench, No. 10.
- 1 Vulcanite File, D. E., half round, 8 inches.
- 1 Felt Conc, large blunt.
- 1 Felt Wheel, No. 2.
- 1 each Brush Wheels, Nos. 4, 20, 26.
- 2 Lathe Chucks.
- 1 Carborundum Wheel, $1\frac{1}{2}$ x $\frac{1}{4}$ inch, grit "B."
- 1 Carborundum Wheel, $1\frac{1}{2}$ x $\frac{1}{4}$ inch, grit "D."
- 1 Crocker Lathe Arbor.
- 1 Mechanical Saw Frame.
- 1 dozen each Mechanical Saws, Nos. 00, 2.
- 1 pair Round-nosed Pliers, $4\frac{1}{2}$ inch.
- 1 Horn Mallet.
- 1 Gas Burner, No. 12, with spider.
- 18 inches Rubber Tubing, $\frac{1}{4}$ inch.
- 1 spool Annealed Iron Wire, 36 gauge.
- 1 bottle Separating Fluid.
- $\frac{1}{2}$ lb. Modeling Composition.
- 3 sheets Sandpaper, No. 1.
- 2 sheets Pink Rubber.
- 4 sheets Red Rubber.
- 1 bottle Shellac Varnish.
- 1 shaker Talcum Powder.
- 1 bottle Vaseline.
- 1 bottle Sandarac Varnish.
- 4 Wilson Vulcanite Trimmers, Nos. 1, 2, 4 and 5 special (Kingsley blade).

SOPHOMORE YEAR

PROSTHETIC OUTFIT

- 1 Plaster Bowl, "B."
- 1 Plaster Spatula, No. 17.
- 1 each Impression Trays, Uppers Nos. 2, 3, 22.
- 1 each Impression Trays, Lowers Nos. 3, 15, 25.
- 1 Snow New Century Occluding Frame.
- 1 Snow's Face Bow.
- 1 box Pink Wax.
- 1 Prothero's Wax Spatula.
- 1 iron Vulcanite Flask, large size.
- 1 Flask Wrench, No. 10.
- 1 Vulcanite File, D. E., half round, 8 inches.
- 1 each Vulcanite Chisels, Nos. 14, 15.
- 1 each Kingsley's Finishers, Nos. 4, 5, 6.
- 1 Felt Cone, large blunt.
- 1 Felt Wheel, No. 2.
- 1 each Brush Wheels, Nos. 4, 20, 26.
- 2 Lathe Chucks.
- 1 Carborundum Wheel, $1\frac{1}{2} \times \frac{1}{4}$ inch, grit "B."
- 1 Carborundum Wheel, $1\frac{1}{2} \times \frac{1}{4}$ inch, grit "D."
- 1 Crocker Lathe Arbor.
- 1 Mechanical Saw Frame.
- 1 dozen each Mechanical Saws, Nos. 00, 2.
- 1 pair Plate Shears, No. 1.
- 1 pair Curved Plate Shears, No. 5.
- 1 pair Round-nosed Pliers, $4\frac{1}{2}$ inches.
- 1 pair Flat-nosed Pliers, $4\frac{1}{2}$ inches.
- 1 pair Prothero's Contouring Pliers.
- 1 Hickory Stick, 4 in. long, $\frac{3}{8} \times \frac{1}{4}$, tapered to $3-16 \times \frac{1}{8}$.
- 1 Horn Mallet.
- 1 Plate Punch No. 1.
- 1 Solder Tweezers, "A."
- 1 Solder Tweezers, "L."
- 1 pair Solder Pliers, long beaks.
- 1 Prothero's Plate Burnisher.
- 1 Compound Blow Pipe.
- 1 Asbestos Soldering Block, No. 2.
- 1 Borax Plate.
- 1 Plate File, Grobet, half round, 5 inches, No. 3.
- 1 Gas Burner, No. 12, with spider.
- 18 inches Rubber Tubing, $\frac{1}{4}$ inch.
- 54 inches Rubber Tubing, $5/16$ inch.
- 1 spool Annealed Iron Wire, 36 gauge.
- $\frac{1}{2}$ lb. Special Asbestos.
- 1 Melotte's Mouldine Outfit.
- 3 lbs. Babbitt Metal.
- 3 lbs. Counter-Die Metal.
- 1 set of (2) Casting Rings.
- 1 can Calcar or Moulding Sand.
- 5 dwts. Silver Solder.
- 1 bottle Separating Fluid.
- $\frac{1}{2}$ lb. Modeling Composition.
- 3 sheets Sandpaper, No. 1.
- 4 sheets Red Rubber.
- 2 sheets Pink Rubber.
- 1 bottle Shellac Varnish.
- 1 Shaker Talcum Powder.
- 1 box Crystal Borax.
- 4 inches Steel Wire, $\frac{1}{4}$ inch diameter.
- 12 inches German Silver Wire, 16 gauge.
- 1 Wire Soldering Frame, 4×4 inches.
- 1 pair Pliers, No. 121.
- 1 Riveting Hammer "B."
- 1 piece of German Silver Plate, 22 gauge.
- 1 piece Aluminum Plate, 16 gauge.
- 1 pair Improved Ivory Cleavers, large size metal handles.
- 1 pair Prothero's Files with metal handles.
- 1 pair Crown and Collar Scissors, No. 11.
- 1 pair Contouring Pliers, Benson's.
- 1 pair Improved Hawk-bill pliers.

OPERATIVE OUTFIT

This Operative Outfit for Sophomores need not be purchased until the beginning of the second semester, when this class begins the Oral Prophylaxis course in the clinic.

SCALERS.

"G. V. Black School Set of Scalers,"
14 instruments, as follows:

FOR SERUMAL CALCULUS

1 pair of Peridental Explorers, 15-8-6, R. and L.

1 pair of Pull Scalers, 15, F. and B. (forward and backward curved blades).

1 pair of Pull Scalers, 15-8-6, R. and L.

1 pair of Pull Scalers, 15-8-12, R. and L.

1 pair of Push Scalers, 15-8-12, R. and L.

FOR SALIVARY CALCULUS

1 pair of Pull Scalers, Nos. 33 and 34.

1 Cleoid Scaler, 25.

1 Sickle Scaler, 20.

ENGINE AND INSTRUMENTS.

1 Cord Driven Dental Engine.

1 Contra-angle Hand-piece.

1 Porte Polisher, No. 307.

1 box Wood Polishing Points.

6 boxes Stiff Polishing Brushes.

1 Porte Polisher for Contra-angle Hand-piece.

ACCESSORIES.

1 Northwestern Instrument Case, new model.

1 Mouth Mirror, No. 3.

1 pair "College" Cotton Pliers.

1 each Explorers, R. and L., Nos. 13 and 14.

1 Water Syringe, No. 22, special nozzle.

1 Chip Syringe, with valve in back end; nozzle same as No. 22.

1 Water Glass, 3-inch diameter.

1 Special Bracket for water glass.

1 package Orange Wood Sticks.

3 Opal Glass Medicine Dishes, $1\frac{1}{8} \times 1\frac{1}{8} \times \frac{1}{2}$.

JUNIOR AND SENIOR YEARS

IN ADDITION TO THE INSTRUMENTS AND APPLIANCES USED IN THE FRESHMAN AND SOPHOMORE YEARS, THE FOLLOWING ARE REQUIRED IN THE JUNIOR AND SENIOR YEARS

GOLD FILLING INSTRUMENTS.

- | | | | | | |
|--|---------------------|-------|-----|-----|-------|
| 1 Automatic Mallet. | 1 each Round | Sizes | 12 | 16 | 20 |
| 1 each Plugger Points. | Burs | Nos. | 3 | 5 | 7 |
| 7½-10-3, Round. | 1 doz. each Invert- | Sizes | 8 | 10 | 12 16 |
| 5-1-0, Bayonet. | ed Cone Burs | Nos. | 34 | 35 | 36 38 |
| 7½-3-0, Bayonet. | 2 each Fissure | Sizes | 10 | 12 | 16 |
| 10x 5-3-3, Parallelogram. | Burs, square end | Nos. | 57 | 58 | 60 |
| 5x10-3-3, Parallelogram. | 1 each Fissure | Sizes | 10 | 12 | |
| 12x 6-6-10, Parallelogram. | Burs, round end | Nos. | 57 | 58 | |
| 15x 5-5-12, Foot. | 1 each Finishing | Sizes | 25 | 40 | |
| 15x 5-3-18, Foot. | Burs, round | Nos. | 204 | 201 | |
| 1 each Long Handle Pluggers. | 1 each Finishing | Sizes | 25 | 40 | |
| 5-1-23 Round. | Burs, oval | Nos. | 219 | 222 | |
| 5-2-23 Round. | 1 each Drills, | Sizes | 12 | 16 | |
| 1 pair Direct Stroke Quadrangle Foot Pluggers. | bi-beveled | Nos. | 102 | 104 | |

Sizes of Burs are given in tenths of millimeters.

FINISHING INSTRUMENTS.

- 2 Finishing Knives, 12 and 18 angles.
- 4 Finishing Files, 6 and 94 angles.
- 1 Black's Saw Frame.
- 1 doz. Kaerber's Saws, one edge.
- 1 doz. Thread Saws.

AMALGAM PLUGGERS.

- 35x15-7-12
- 15x35-7-12
- 25x7-12

SCALERS.

"G. V. Black School Set of Scalers," 14 instruments, as follows:

- For Serumal Calculus.
- 1 pair of Peridental Explorers, 15-8-6, R. and L.
- 1 pair of Pull Scalers, 15, F. and B. (forward and backward curved blades).
- 1 pair of Pull Scalers, 15-8-6, R. and L.
- 1 pair of Pull Scalers, 15-8-12, R. and L.
- 1 pair of Push Scalers, 15-8-12, R. and L.
- For Salivary Calculus.
- 1 pair of Pull Scalers, Nos. 33 and 34.
- 1 Cleoid Scaler, 25.
- 1 Sickle Scaler, 20.

GOLD INLAY INSTRUMENTS.

- 1 Burnishing and Trimming Instrument.
- 1 pair R. and L. Trimming Knives.
- 1 Casting Ring, sprue and former (Taggart).
- 1 box Taggart Wax.

PORCELAIN INSTRUMENTS.

- 1 pair "K" Pliers.
- 1 pair Ball Pliers.
- 4 Thompson Burnishers, Nos. 3, 4, 5, 8.
- 2 Camel's Hair Pencils.

ENGINE AND INSTRUMENTS.

- 1 Cord Driven Dental Engine.
- 1 Contra-angle Hand-piece.

- 1 Porte Polisher, No. 307.
- 1 box Wood Polishing Points.
- 6 boxes Stiff Polishing Brushes.
- 2 Mandrels, No. 303.
- 1 Mandrel, Morgan-Maxfield.
- Burs for Contra-angle Hand-piece.
- 6 each Inverted Cone, 8, 10, 12 mm.
- 1 each Fissure, 10, 12, 16 mm.
- 1 Porte Polisher.
- 1 Mandrel, 303.
- 1 Morgan-Maxfield Mandrel.
- 1 box each Emery Paper Disks, ½ inch, grits Nos. 00, 1.
- 1 box each Sand Paper Disks, ⅝ inch, grits Nos. 00, 1.
- 1 box each Cuttlefish Paper Disks, ½ inch and ⅝ inch.
- 1 Wire Brush for cleaning broaches, all brass.

ACCESSORIES.

- *1 "Northwestern" Instrument Case, new model, 1916-17.
- 1 Mouth Mirror, No. 3.
- 1 pair "College" Cotton Pliers.
- 1 each Explorers, R. and L. No. 13, 14.
- 6 Perry Separators, A, B, C, D, E, F, with wrench.
- 1 Rubber Dam Punch.
- 1 Universal Rubber Dam Clamp Forceps.
- 1 pair Special Third-Molar Rubber Dam Clamps, right and left.
- 1 each Rubber Dam Clamps, Nos. 18, 26.
- 1 pair Rubber Dam Clamps for Roots.
- 1 Hatch Cervical Clamp.
- 1 Rubber Dam Holder.
- 2 Rubber Dam Weights.
- 1 Water Syringe, No. 22, special nozzle.
- 1 Chip Syringe, with valve in the back end. Nozzle same as 22.
- 1 Water Glass, not over 3 inch diameter.

*This specially designed Instrument Case, constructed of steel, may be purchased in the school library for \$15.00. If desired, the school will, at the end of the completed course, upon the return of the case in good condition, refund \$8.00 to the purchaser.

- 1 Special bracket for water glass.
- 1 package orange wood sticks.
- 1 Grobet File, half round, 3-inch, No. 2.
- 1 pair Straight Scissors, 5-inch.
- 1 Opal Glass Tray, to hold six broaches.
- 6 Broach Holders, metal handles. (These in addition to two required in Freshman year.)
- 2 Bottles for used broaches, 3 inches long by $\frac{1}{2}$ or $\frac{3}{4}$ diameter outside.
- 1 Glass Slab for sterilizing broaches.
- 3 Opal Glass Medicine Dishes, $1\frac{3}{4} \times 1\frac{1}{2} \times \frac{1}{2}$.
- 1 Bottle Alcohol, with pipette through cork.
- 3 boxes Pink Base-plate Gutta-percha. 50 pieces $\frac{1}{4}$ inch square, 25 pieces $\frac{1}{2}$ inch square, 25 pieces $\frac{1}{2} \times 1$ inch.
- 1 spool of Waxed Floss, 100 yards in special container.
- 1 package Absorbent Pellets, 3 sizes.
- 1 package Cotton Rolls, 2 sizes.
- 1 package Cotton for root canal dressings.
- 1 package Gauze.
- 1 package Absorbent Cotton, 1 oz.
- 1 Instrument Sterilizing Bag.

SURGICAL CASE.

- 1 Leather Pocket Case.
- 1 Scalpel, $1\frac{1}{2}$ -inch blade.
- 1 Tenaculum.
- 1 Sharp Steel Probe.
- 1 Silver Probe.
- 1 Grooved Director.
- 1 Exploring Needle.
- 1 pair Artery Forceps, $4\frac{1}{2}$ inch.
- 1 pair Surgeon's Scissors, $4\frac{1}{2}$ inch, straight.

SPECIAL FOR JUNIORS ONLY.

- 1 Martin Screw Plate, holes Nos. 0 to 12, series "B."
- 1 Draw Plate, special.
- $\frac{1}{2}$ lb. German Silver Plate, 28 gauge.
- 12 inches German Silver Wire, 14 gauge.
- 12 inches German Silver Wire, 16 gauge.
- 12 inches Stub's Steel Wire, 93-1000.

Fees and Expenses

FOR THE YEAR 1917-1918

Matriculation Fee\$5.00

This fee is to be paid when a student first matriculates in any department of the University, and covers subsequent matriculations in the same or other departments. It is to be paid but once and is in no case returnable.

Registration Deposit, each year.....\$5.00

This deposit must be paid when names are enrolled for classes. It will be credited on the tuition fee for the current year. It is not returnable in case the student fails to attend. If the first matriculation of the student is in the Dental School, the matriculation fee will serve as a registration fee for that year, but the matriculation fee is not credited on the tuition fee.

Tuition Fee, each year.....\$200.00

This fee includes the registration deposit, but not the matriculation fee. It includes all laboratory fees for equipment, supplies, manuals and note-books. Each student is provided with a locker for the protection of his private property. The student must furnish his own lock.

Final Examination Fee, for Seniors.....\$10.00

Time of Payment of Tuition—The tuition fee is payable at the beginning of the school year. It may be paid in two installments, \$100.00 at the beginning of the first semester and \$100.00 at the beginning of the second semester. If installments are not paid within ten days of the opening of the semester, \$2.00 will be added, but in no case may payment be deferred more than thirty days. Payments should be made in currency or in Chicago exchange drawn to the order of Northwestern University. Out of town personal checks are not accepted.

Refunds—No fees for tuition will be refunded except in cases of sickness. If on account of serious illness a student withdraws from the School before the end of the school year, a share of his tuition fee may be refunded, provided he secures from the Dean a statement of honorable standing, and from a physician a certificate that his health will not permit him to remain in attendance. No application for a refund will be considered unless made within thirty days after withdrawal from the School on account of sickness.

COST OF BOOKS AND EQUIPMENT

The amounts given below are as nearly correct as can be determined in advance, owing to the changes which may occur in prices or in the selection of books, instruments and other equipment. As many of the books and almost all of the other equipment listed for each of the first three years are required in the succeeding years, the figures given apply only to those students entering this school as Freshmen. Students entering with advanced standing, or by transfer from other Dental Schools, will be required to purchase whatever may be necessary of the books and equipment listed for preceding years.

For the year 1917-1918, the School will supply the books and equipment for the Freshman and Sophomore classes upon payment by the student of a deposit covering their value. Upon completion of the course, a stated amount of the deposit will be refunded for the return of the equipment in good condition.

The books for the Junior and Senior classes, and the new steel instrument cases will be delivered through a representative of the School; the instruments and equipment for Juniors may be purchased from one of the Dental Supply Houses located in the University Building.

The student should come prepared to purchase the complete outfit of books and instruments at the opening of school, in addition to at least the first semester tuition.

ESTIMATE OF COST OF BOOKS AND EQUIPMENT FOR EACH CLASS
FOR THE YEAR 1917-1918

Freshman year, books as per required list, about.....	\$ 50.00
Instruments and other equipment, as per required list, about....	50.00
	<u>\$100.00</u>
Sophomore year, books, about.....	\$ 20.00
Instruments and other equipment, at beginning of year, about...	60.00
Instruments and other equipment, second semester, about.....	95.00
	<u>\$175.00</u>
Junior year, books, about.....	\$ 20.00
Instruments and other equipment, about.....	180.00
	<u>*\$200.00</u>
Senior year, books, about.....	\$ 25.00
Final examination fee.....	10.00
	<u>\$35.00</u>

ESTIMATE OF TOTAL EXPENSES FOR FOUR-YEAR COURSE FOR FRESH-
MEN ENTERING IN OCTOBER, 1917, DUPLICATIONS IN
ABOVE ESTIMATES BEING ELIMINATED

Freshman year, matriculation, tuition, books and equipment....	\$ 305.00
Sophomore year, tuition, books and equipment.....	375.00
Junior year, tuition, books and equipment.....	300.00
Senior year, tuition, final examination fee, books and equipment..	235.00
	<u>TOTAL.....\$1,215.00</u>

This is an average of about \$300.00 per year. The equipment includes practically everything required for a dentist's office, except dental chair and office furniture, so that while the expense for equipment in school is considerable, it should not be counted as a school expense, but rather as a part of the expense of office equipment. The expense in addition to the tuition for the Senior year is small, so that the student is likely to be better prepared to meet the cost of office equipment at the time of graduation.

*About \$100.00 worth of this equipment is included in the Sophomore list, so that the cost of Junior books and equipment in 1918-19 and thereafter will be about \$100.00 instead of \$200.00.

UNIVERSITY NOT RESPONSIBLE FOR PERSONAL LOSSES

The University is not responsible for the loss of any personal property belonging to any of the students in any building owned by the University, whether the loss occurs by theft, fire, or an unknown cause.

CHARGE FOR BREAKAGE

Students will be held responsible for unnecessary damage to or breakage of the apparatus, equipment, furniture or other property of the University.

STUDENTS' EXTRA FUNDS

Students who bring with them larger amounts of funds than their immediate requirements necessitate may deposit the same in the University business office, in the rotunda on first floor, and draw on this deposit from time to time as needed, under such regulations as may be prescribed.

BOARD AND ROOM

Rooms and board may be obtained at \$6.00 to \$9.00 a week. Rooms without board, furnished or unfurnished, may be had at \$6.00 to \$10.00 a month.

A department of the Y. M. C. A. is maintained in the University Building, which looks especially to the students' interest in this direction.

In case students are compelled to do some outside work to assist them while attending school, this department will also endeavor to secure such employment as the student may be able to do without detriment to his educational work.

THE UNIVERSITY DORMITORIES

The University dormitories are situated on the North Campus near the University Gymnasium, and within a five-minute walk to the Elevated trains with direct service to Chicago.

Applications for the reservation of rooms should be made to the Secretary of the Dental School and should be accompanied by a deposit of \$10.

Course for Graduates and Practitioners

The course opens on February 4, 1918, and will continue during four weeks with six days of teaching each week. It includes two hours of lectures and six hours of practical laboratory or clinical instruction or exercise each day. The regular teaching staff of the school will give the instruction.

Especial attention is given to porcelain and gold inlays, crowns, fixed and removable, bridge work, anatomical occlusion for artificial dentures, the treatment of pathological conditions of the soft tissues investing the teeth, root canal technic, and the most recent methods in Operative Dentistry, Oral Surgery, and Orthodontia. The studies for 1918 are:

Operative Dentistry—Professor Black and Professor Gethro.

Histology, as applied to Operative Dentistry—Professor Thomas.

Oral Surgery—Professor Gilmer, Professor Potts, Dr. Meyer and Assistants.

Dental Pathology and Therapeutics—Professor Black and Professor Willard.

Prosthetic Dentistry—Professor Prothero and Assistants.

Orthodontia—Professor Sellery.

Anesthesia—Professor Potts.

Extracting Clinic with Anesthesia—Dr. Freeman.

Dental Radiography—Dr. Leach.

PRACTITIONERS' COURSE FEES

Matriculation fee	\$ 5.00
Tuition	60.00

Of this tuition fee, ten dollars is added to the Dental Research Fund of the School.

For further information, address Northwestern University Dental School, 31 W. Lake Street, Chicago, Illinois.

Register of Students, 1916-1917

SENIORS

Adsit, Harry Brown.....	Davidson, Walter Joseph....
.....Owatonna, Minn.	Blue Island
Alexander, Edwin Albert....	Davis, Charles Ford, Jr....
.....Fresno, Calif.	Downer's Grove
Anderson, Alfred George..Chicago	Davis, Jasper LeRoy...Logan, Iowa
Anderson, Iver E....Norway, Mich.	*Delgado, Francisco Bernardo
Babcock, George Henry.....	Ciego de Avila, Cuba
.....Cumberland, Wis.	Dodge, Charles Currier.....
Baker, Elmer George.....	Denver, Colo.
.....Waterloo, Wis.	Dufner, Jeffie Hillery.....
Ball, Chester Earl....Chadron, Neb.	Hallettsville, Tex.
Barteau, Sidney Brewster...	Dunsworth, Marcus Meyer...
.....Zumbrota, Minn.	Lethbridge, Alberta
Benon, Robert Alexander...Chicago	Dybdahl, John Margido...Chicago
Beste, Arnold L.....	Ellis, Raymond William.....
.....Vermillion, S. Dak.	Belvidere, S. Dak.
Bevard, Loyd William..Cartersville	English, Winfrey W.....
Biddison, George...Goodland, Kans.	Warrensburg, Mo.
Birtwistle, John Edward....	Erickson, Pontus Leander, M.D.
.....St. Charles	Chicago
Black, Merle Thomas.....Chicago	Esslinger, Orin William.....
Blackman, Lloyd Clarence..	Sheffield, Iowa
.....Madison, Nebr.	Ezard, Arthur Russell.....
Blaustein, Samuel Lawrence.Chicago	Winnipeg, Man.
Bock, Edmund Arthur.....Oakglen	Feaman, John Ahrue....Chicago
Bokman, Arthur Frederick..Chicago	Ferdinand, Samuel Shepard.Chicago
Boman, Herbert Laul.....Chicago	Fisher, Ralph Warner.....Chicago
Bowe, Clyde Carson.....	Foley, William Joseph....Chicago
.....Milbank, S. Dak.	Freudenberg, Robert Scharle.
Bragg, Minter Kelly...Mexico, Mo.	Chicago
Bromund, Roland Charles....	Friedman, Benjamin T....Chicago
.....Duluth, Minn.	Garvey, Allen William.....
Bronson, Reid Raymond...Evanston	Virginia, Minn.
Burri, Otto.....Berne, Switzerland	Gee, J. Ewart.....
Butler, Fabius M.....Chicago	Victoria, B. C.
Canine, Frank Gaines.....	Gilbertson, Oscar Elert..Oak Park
.....Salt Lake City, Utah	Giles, William Dickerson...
Cart, Jacob Frederick.....	LaFayette, Ind.
.....Franksville, Wis.	Gillmeister, Joseph Francis.Chicago
Chrt, Otto Thomas.....Chicago	Goldfuss, Gail Irving.....Chicago
Cohen, Maurice.....Chicago	Glass, Lawrence Montague..
Cole, Alan Victor..Winnipeg, Can.	Muscatine, Iowa
Cole, Louise Olive..Winnipeg, Can.	Gollin, Isadore.....Chicago
Cooke, John Michael.Norway, Mich.	Graven, Leif F...Menomonie, Wis.

*Matriculated but not in attendance

Gray, Joseph William.....	Joyce, Cyril Montague.....
.....Cleveland, Ohio	Stewartville, Minn.
Guinon, Clarence Mathew...	Joyce, Delmer Richard.....
.....Grand Rapids, Mich.	Grand Meadow, Minn.
Gunnarson, Chester Alvin....	Kabiller, Sol.....Chicago
.....Hallock, Minn.	Kakac, Ione Jeanette..Cresco, Iowa
Gurney, Edward Brower.....Joliet	Kean, Albert Conkle.....
Halterman, Isaac L.....	Coleraine, Minn.
.....Mt. Vernon, Mo.	Kieren, Leo A..New Hampton, Iowa
Hamilton, James W.....	Kirby, Henry Wolcott, A.B...
.....Langdon, N. Dak.	Jacksonville
Hand, Thomas Elihu..Wadley, Ala.	Koppel, Samuel Martin....Chicago
Hardy, Fred T.Salt Lake City, Utah	Kroschel, John Anthony Forest
Heineke, Gustav....Brenham, Tex.	Hallettsville, Tex.
Henry, William John.....	Lager, Hugo Oscar.....Chicago
.....Oak Hill, Ala.	Lambert, Norton Nathaniel.Chicago
*Hibbard, Leo C.....Lake Geneva	Landry, Howard Peter..Thorp, Wis.
Hielscher, Paul Amandus....	Lawrence, Otto Herbert....
.....South Minneapolis, Minn.	Canton, S. Dak.
Higgins, E. Elvin..Blue Hill, Nebr.	Layng, Richard Holmes.....
Hirn, Edward Michael.....	Athens, Ontario, Can.
.....Escanaba, Mich.	Lebowitz, Abraham Emanuel.
Ho, Sue Kong....Honolulu, Hawaii	South Chicago
Hoeffel, Paul Sylvester.....	Lloyd, Roger Wilton..Ottawa, Minn.
.....Green Bay, Wis.	Lovitt, Willis Huston....LaHarpe
Hoffman, Harold Middaugh..	Lundquist, Gottfred Rudolph.
.....Elkhorn, Wis.	Chicago
Holland, Theodore Albert...	McClain, Harris W.....Chicago
.....Chicago	McGilligan, Stanley Peter..Findlay
Holm, Harold Andrew....Chicago	McKay, Edward Robertson..
Hooper, Harold Andrew....	Toronto, Can.
.....Iron Mountain, Mich.	McLaughlin, Angus James....
Hornbeck, Ralph Abram.....	Blue Earth, Minn
.....Superior, Wis.	McLaughlin, Hugh Charles...
Hoskin, Dale Gelling.Darling, Wis.	Sanger, Cal.
Howell, Harry Carl...Green Valley	McLean, Murray Hector....
Huff, Robert Eugene..Wichita, Kans.	Winnipeg, Man.
Hurton, Roderick George Handale	Magnuson, Homer Norman..
.....Carman, Manitoba	Stillwater, Minn.
Huxtable, Harvey S.....	Maricle, Jay.....Wells, Minn.
.....Mineral Point, Wis.	Matteson, Clarence Edwin....
Jacobson, Irvin LeRoy.....	Burley, Idaho
.....Rushmore, Minn.	May, Lewis Renwick....Savanna
Johnson, Gustaf William....	Meis, Leander Francis.....
.....Norway, Mich.	Dubuque, Iowa
Johnson, Robert Van Ness..Chicago	Meyers, Ernest Eugene.....
Jonas, Samuel T.....Chicago	Davenport, Iowa
Jones, Benjamin Roswell....	Meyers, Irvin Albert.....
.....Wilmington	Milwaukee, Wis.
Jones, William Walter....Bradford	Miller, Charles.....Chicago

*Matriculated but not in attendance

- Miller, Clyde Jay.....Mattoon
 Miller, Walter Lee.....Aurora
 Morton, Ira Irving...Memphis, Mo.
 Musaph, Abraham
 Amsterdam, Holland
 Newton, Francis Jefferson...Chicago
 Olafsson, Paul...Reykjavik, Iceland
 Oppice, Harold Whinery....
 Marshalltown, Iowa
 Parks, Ruth Harriett.....Moline
 Pearlman, Abram James...Chicago
 Pierce, Ray Garfield..Buffalo, N. Y.
 Pitts, Leonard Brooks.....Decatur
 Pomerance, Isaac S.....Chicago
 Powell, Farrow Raymond....
 Mishawaka, Ind.
 Proctor, Clarence Eugene..Springton
 Rasmus, Richard Nathaniel..
 Farmington, Iowa
 Reckard, Harry Jefferson...Chicago
 Reichman, Preston..Wabasha, Minn.
 Reilley, Raymond Aloysius..Chicago
 Reilly, William Allen.....
 Lead, S. Dak.
 Rhobotham, Frank Blaine..Chicago
 Rohner, Joseph John..Carroll, Iowa
 Rose, Peter Joseph...Minto, N. Dak.
 Sanderson, Arthur George....
 Sydney, N. S. W., Australia
 Sanders, Samuel Ernest.....
 Montezuma, Iowa
 Schultz, Louis Charles.....
 Columbus, Wis.
 Scofield, Perry Lee...Huron, S. Dak.
 Senick, Robert Felix William..
 Chicago
 Shaw, Charles Andrews.....
 Ironwood, Mich.
 Shideler, Mark Heber.....
 Huntington, Ind.
 Shimomura, Zenzo.....
 Kuse, Okayamaken, Japan
 Shriver, Presley....Seymour, Iowa
 Sloan, Orrie H.....
 Tottenham, Ont., Can.
 Smelser, Clifford Glenn.....
 Henricks, Minn.
 Smith, Adelbert Nathan.....
 Hartford, Mich.
 Smith, Eldon Jerome..Taylor, Wis.
 Smith, Truman Franklin....
 Glenwood, Wis.
 Sorbel, Alfred Rudolph.....
 Webster, S. Dak.
 Stephen, Elmer Joseph.....Joliet
 Sternberg, Morris B.....Chicago
 Sundquist, George N.Superior, Wis.
 Sweet, Erwin Earl..Bay City, Mich.
 Szafranski, Leonard Bernard..
 Chicago
 Talbot, Joseph David.....Joliet
 Thornton, Reed Franklin.....
 Lawton, Mich.
 Thorsness, Arlo Walter.....
 Cumberland, Wis.
 Toraason, Clifford Melphor..
 Blair, Wis.
 Trulson, Palmer Charles..Princeton
 Valenzuela, Mariano
 San Jose, Costa Rica
 Vitak, Louis Augustus.....Chicago
 Wagner, William Molln..Princeton
 Wahl, Leonard Paul..Wausau, Wis.
 Wall, Otis John...Wabasha, Minn.
 Warner, John Thurman.....
 Dayton, Iowa
 Watts, Emmett Ross.....
 What Cheer, Iowa
 Weeks, Lester Dale..Indianola, Iowa
 Wenger, Herman Rudolph..Chicago
 Werner, Adrian Frank.....
 Blue Earth, Minn.
 Westfall, Claude LaForest..Savanna
 Westfall, Mary H.....Bushnell
 White, Evert Leon.....
 Hamiota, Manitoba, Canada
 Wiggins, Sidney Albert.....Milan
 Williams, Ervin Rossell..Chicago
 Wilson, Daniel William.....
 Belle Plaine, Minn.
 Wood, Guy L.....Milbank, S. Dak.
 Wright, James Stanley.....
 San Antonio, Tex.
 Yeager, Clarence Henry.....
 Wauseon, Ohio
 Yeager, Robert Bloomfield....
 Wauseon, Ohio
 Zimmerman, Edward Allen..Chicago

JUNIORS

Ackemann, William Herman	Deindoerfer, Charles Robert
.....Elgin	Defiance, Ohio
Acker, Kemp Girard...Sharon, Pa.	Devery, Wilbert Francis....Chicago
Adams, L. P.....Chicago	Doe, Adolph Christy.....Chicago
Aiken, George Harvey.....Chicago	Eberlein, Clarence Albert....
Allen, Paul Emil.....Chicago	Blue Earth, Minn.
Baghdikian, Yeghia Boghos..	Edgren, Reuben Henry.....
.....Harpoot, Armenia	Norway, Mich.
Bailey, Allyn Collins.Decorah, Iowa	Elfenbaum, Arthur Chicago
Ballard, Charles Joseph Arthur	Erdahl, Henry A.Blue Earth, Minn.
.....Tilbury, Ontario, Can.	Fair, Ralph James..Cadillac, Mich.
Bernal, Josue L.....	Fauerbach, Frederick William
.....Bogota, Colombia, S. A.	Madison, Wis.
Bertram, Ryan Lawrence....Casey	Ferguson, Cecil O.....
Bignell, Kenneth Alfred....	Drayton, N. Dak.
.....Seymour, Wis.	Fielding, Fred Richard.....
Black, Hugh Edwin..Canadian, Tex.	Hot Springs, Ark.
Borg, Fritz Herman.....Chicago	Fifield, Hugo Harrison..Hobart, Ind.
Bosma, Kathryn Bernice....	Fischer, Ferdinand George...Joliet
.....Sheldon, Iowa	Fisher, Wilson Kely.....Plano
Boylard, Charles Robert....	Fjelstad, Olin Calmar.Madison, Wis.
.....Crawfordsville, Ind.	Fluent, Stanley H....Otranto, Iowa
Brasmer, William Otto.....Viola	Foley, Claude James.....
Bresee, Thomas Frederick..	Querrin, Sask., Can.
.....Stevensville, Mont.	Fortney, Almon Daniel.....
Burk, Robert Rex.....Casey	Viroqua, Wis.
Burman, Frank Phillip.....Chicago	Fouts, Willard H.....Lewistown
Cann, Ivan Cyril.Black Duck, Minn.	Fratzke, Bert G...Janesville, Minn.
Carpenter, George Sherburne	Freud, Sidney Barker.....Chicago
.....Ionia, Mich.	Fried, Irwin Robert.....Chicago
Cartwright, Glenn Edon....	Frink, Lila M..South Shore, S. Dak.
.....Payne, Ohio	Gates, Orie John....Walworth, Wis.
Chang, Sau Yee.Hanapepe, Hawaii	Gaviria, Alberto
Collings, William Joseph....	Bogota, Colombia, S. A.
.....Harlowton, Mont.	Gillis, Joseph Eugene.....
Cooke, Ray S..Spring Valley, Wis.	Deerbrook, Wis.
Cramer, Myron F..Willmar, Minn.	*Glazat, Carl Edward.....
Creuzot, Percy Pennington..	Grand Haven, Mich.
.....Alexandria, La.	Godowsky, Ulysses Gilbert..Chicago
Cuolahan, Paul Begoe.....	Gondon, William A..Whiting, Ind.
.....Darlington, Wis.	Goodwin, Boyd Cooper.....
Currier, Clark Payne.....Aurora	Eldorado, Ark.
Dahnke, Emil K..Dannebrog, Nebr.	Graffin, Lester Paul.....Chicago
Dalglish, Rolland Chester..	Gurslee, Christian Bernard..
.....Park City, Utah	Hendricks, Minn.
Davy, Reuben Roy.....DeKalb	Gutman, Morris Harold.....
Deighton, Herbert Harper..	Savannah, Ga.
.....Park City, Utah	Halverson, Arnold Eugene...
	Superior, Wis.

*Matriculated but not in attendance

- Hamm, Wayne Lee.....Ludlow
 Hay, Edward L...Silver Lake, Ind.
 Hefter, Roy.....Chicago
 Heisler, John C..Jefferson City, Mo.
 Hellebo, Lloyd Frithiof.....
 Janesville, Wis.
 Henderson, Robert Ray...Chicago
 Hensley, Tom Scott.....Peoria
 Hibbe, Harper Jerome.....
 Downers Grove
 Hinman, Donald McLennan..
 Maywood
 Hoerner, Harry John...Barrington
 Hoffman, Oscar H.....
 Cooperstown, N. Dak.
 Holtzman, Clarence Weldon..
 Chicago
 Holz, Carl William.....Springfield
 Hopkins, Joseph Anthony...
 Bensonville
 Hurlstone, Frank James...Harvard
 Huscher, Fred George.....Chicago
 Hutson, Phil.....Sparta, Wis.
 Hyland, Lester Ancel.....
 Oakridge, Ore.
 Jackson, Chester Floyd.....
 Columbia City, Ind.
 Jaeger, Mrs. Bessie.....Chicago
 Johannes, Gustav Charles...Chicago
 Johnson, Carroll William...Ogden
 Johnson, Gustave E.....Chicago
 Johnson, Howard Morton...
 Redfield, S. Dak.
 Johnson, Max Magnus.....
 Bellingham, Wash.
 Johnson, William Joseph...
 Redfield, S. Dak.
 Johnston, John J...Eldorado, Ark.
 Jonas, Arthur.....Butte, Mont.
 Jones, David Arthur.....
 Salt Lake City, Utah
 Kaffie, Malcolm Ellis.....
 Natchitoches, La.
 Kelly, John W....Sigourney, Iowa
 Kendrick, Kenneth Kernan..
 Vandalia, Mo.
 King, James Wilfred.....
 Milwaukee, Oregon
 Kleutz, Rudolph Harold....
 Merrill, Wis.
 Kozlow, Edward.....Detroit, Mich.
 Kreiger, Herbert Clyde.....
 Coleraine, Minn.
 Kuhre, Martin G..Sandy City, Utah
 Kulvinsky, Abraham.....Chicago
 Lee, Arthur Lawrence.....
 Ashton, S. Dak.
 Leviash, Harry Samuel...Chicago
 Lindsey, Charles Frank.....
 Princeton, Mo.
 Lippert, Jacob Leopold.....Chicago
 Livingston, George Bernard.Chicago
 Lockwood, Hillyard Hanna..
 Westport, Ont., Can.
 Lortz, Fritz William.....
 Williamsburg, Iowa
 Lowum, Franziska Leistad...
 Christiania, Norway
 Lyons, William J., Jr.....Chicago
 Maggid, Nathan Mayer...Chicago
 Mann, Harry.....Huron, S. Dak.
 Mazur, Florence Marquisette..
 Chicago
 McAnlis, John Albert.....
 Clay Center, Kans.
 McGruer, Earl ..Langdon, N. Dak.
 McGruer, John James.....
 Langdon, N. Dak.
 McLean, Harold Peter.....
 Cedar Villa, Princetown,
 Trinidad, B. W. I.
 McNulty, Cletus Joseph...Chicago
 Mead, Silas Frank..Armour, S. Dak.
 Meyer, John H.....Bricelyn, Minn.
 Miller, Archie F...Minto, N. Dak.
 Miller, Jerome Jacob.....
 Brooklyn, N. Y.
 Mitchell, James Herbert...
 Hamiota, Man., Can.
 Moen, Norris.....Cashton, Wis.
 Moen, Obed.....Reeseville, Wis.
 Montgomery, Earl Livingston
 Chicago
 Montgomery, Edgar Morse..Chicago
 Moran, John Joseph.....Chicago
 Moulton, Oscar Blair.....Evanston
 Myers, Benjamin.....Chicago
 Nelson, Edwin Christian...
 River Falls, Wis.
 Newell, Andrew Jackson...
 Cooperstown, N. Dak.
 Norgren, Carl Hjalmar....Chicago

- Oakland, Irwin Sylvester....
 Corsica, S. Dak.
 Ochoa, Fidel Cadinanos....
 Lalla Bilboa, Spain
 O'Connor, Edward Thomas..
 Stewartville, Minn.
 Oliver, Henry.....
 Sydney, N. S. W., Australia
 Olshan, James Harold.....Chicago
 O'Rourke, Melrose Bernard..
 Maple Lake, Minn.
 Oveson, Iver Anton.....Chicago
 Palmer, Earl.....Armour, S. Dak.
 Pastoret, Al. L.....Fargo, N. Dak.
 Payne, Charles William.....
 Butte, Mont.
 Pekarske, Albert Alfred.....
 Timothy, Wis.
 Peterson, Edwin Carl.....
 Hollandale, Wis.
 Pool, Donald Arthur.....
 Redfield, S. Dak.
 Post, Robert Maxon...Barron, Wis.
 Poundstone, Leon Harmon....
 Blackwell, Okla.
 Poyer, Walter Thomas...Desplaines
 Pursell, Murat Gillespie...Chicago
 Qualley, George R...Madison, Wis.
 Quilling, Devan W.....
 Menomonie, Wis.
 Quinn, Emmett Martin.....Chicago
 Rader, Frank James.Chesterton, Ind.
 Ralstin, Henry William.....
 Wichita, Kans.
 Randall, George Truman....
 Newman Grove, Nebr.
 Rasmussen, William Louis...
 Stoughton, Wis.
 Ray, Herbert Scott.....Chicago
 Recob, Clifford Floyd.....
 Richland Center, Wis.
 Reed, George Shannon.....
 Lubbock, Tex.
 Reid, Melville...Drayton, N. Dak.
 Reinardy, Charles J.....
 Burlington, Wis.
 Rice, Harold Dresser...Hillsboro
 Ritter, Maurice John.....
 Valparaiso, Ind.
 Roberts, Arthur Llewellyn..Aurora
 Robinson, H. Parry.....Ipava
 Robison, Clifford LeClair..Augusta
- Rooks, William Duffield....
 Morrisburg, Ont., Can.
 Root, Byron Lee.....Centralia
 Rosenblatt, James Samuel..Chicago
 Rowland, LeRoy Thomas...Chicago
 Rushing, John Shelton.....
 El Dorado, Ark.
 Sargeant, George Weld.....
 Boone, Iowa
 Schwab, William August..Decatur
 Scheerey, Aubrey Edward....
 Whiting, Ind.
 Schlampp, John Waldo.Ackley, Iowa
 Schueller, Leo V..Howard, S. Dak.
 Schultz, Paul Q..Waterville, Minn.
 Schuman, Morris Charles....
 Cincinnati, O.
 Schwartz, Abraham.....Chicago
 Scott, Clark Baron...Cleveland, O.
 Scott, Otho E.....Miller, S. Dak.
 Seeglit, Albert Henry.....Chicago
 Sherman, James Frank.....
 Madison, S. Dak.
 Sievert, Otto Herman August
 Merrill, Wis.
 Smith, Charles Leroy.....Chicago
 Smith, Harry Edwin...Depauw, Ind.
 Snoeberger, Paul Alfred.....
 Rockfield, Ind.
 Southworth, Frank Wilson...
 Eureka, Wis.
 Spensley, Vincent Homer....
 Otho, Iowa
 Steffy, Guy George.....Chicago
 Stephenson, Arthur Warren..
 Lacy, S. Dak.
 Storberg, Carl Gustav..Ada, Minn.
 Sugrue, John Joseph.....Chicago
 Sweeney, Raymond Joseph...
 Kelso, Wash.
 Swenson, Earl R...St. Paul, Minn.
 Thomas, Constantine J....Chicago
 Thompson, Oscar Iver.....
 Willmar, Minn.
 Thomson, James Herbert....
 Cavalier, N. Dak.
 Toppel, Isadore.....Chicago
 Tylman, Stanley Daniel...Chicago
 Ulrich, Jesse L...Huntington, Ind.
 Umbach, Myron Joseph..Naperville
 Varker, Ray Lee.....Cuba, Wis.
 Vickers, Harvey H..Walworth, Wis.

VonRuden, Herman Anton...	Westerdahl, Frank Robbin....
.....Cashton, Wis.	Kerkhoven, Minn.
Wadleigh, Gerald Eugene....	*Whitney, William Cauty....
.....Galesville, Wis.	Chicago
Waggoner, Parke Hammer.Decatur	Wilhermsdorfer, Jerome....Chicago
Walker, Chester Kenneth....	Wilke, Herbert Fred.....
.....Rapid City, S. Dak.	Milwaukee, Wis.
Warburton, William Leslie..	Wills, Ellis L....Platteville, Wis.
.....Salt Lake City, Utah	Wineburgh, Samuel....Utica, N. Y.
Watson, John Alexander....Ludlow	Wishner, Max.....Chicago
Watters, Hugh William....Potomac	Wollmann, Andreas Arnold,
Wedell, Harold Godfrey....Chicago	Jr. Freeman, S. Dak.
Wehrheim, Lawrence Alexander	Wood, William
.....Chicago	Salt Lake City, Utah
Welch, Charles Haig.....	Wrobleski, Edward Jean....
.....Bloomfield, Ind.	Cincinnati, Ohio
Wells, Charles Raymond....	Young, Donald Rodolfo....Panama
.....Northfield, Vt.	Zane, Kin Chow...Honolulu, T. H.
Westaby, Henry P..Madison, S. Dak.	Zeis, Andrew W..St. Cloud, Minn.
Westby, Peter M.....Bath, S. Dak.	

SOPHOMORE FOUR YEAR COURSE

Bayne, Walter Leon.....Henry

FRESHMEN

Adams, Charles Henry....Chicago	Berg, Gordon Gustaf.....Chicago
Akin, Hamilton Lee....Maywood	Berry, Henry William....Chicago
Alexander, Otto Joseph....Galena	Berry, Joseph Orion.....Chicago
Algeo, Charles Burns.....	Bishop, Evard Allen.....
.....Cumberland, Wis.	Missoula, Mont.
Allan, Frederick Ralph....Chicago	Blumenschein, John Peter....
Allen, Donald Messenger....	Washington
.....East Lansing, Mich.	Bollinger, Clarence Floyd...
Amberson, Leonard Nelson...	Bridgewater, S. Dak.
.....Rugby, N. Dak.	Borg, Alfred L.....Chicago
Amidon, Sherwood Delos....	Bowden, Paul Herbert.Butte, Mont.
.....Farber, Mo.	Boyden, Carl H..Mitchell, S. Dak.
Anderson, Orvel....Monroe, Utah	Brady, Harold James.Ashland, Wis.
Anshutz, Wade Bush.....	Brahy, Nicholas Richard...Chicago
.....Terre Haute, Ind.	Bromberg, Samuel
Applegate, P. Robert.....Chicago	Brown, William Henry.....
Auerbach, Bernard	Antigo, Wis.
Bakowen, Goodman	Burmeister, Henry William.Chicago
Ball, Walter Carlyle.....Chicago	Cabeen, Milo Howard.....Seaton
Bantle, Leo P.....St. Paul, Minn.	Campion, Sylvester John...
Barnhart, Raymond O.....	Rochester, Minn.
.....What Cheer, Iowa	Caradine, Winford Hugh....
Beal, Nelson.....Ephraim, Utah	Monroe, Wis.
Beck, Walter Roy.Crown Point, Ind.	Cardio, Frank E....Atlantic, Iowa
Berndt, Arthur Walter....Chicago	

*Matriculated but not in attendance

Carroll, William H.....	Finnegan, William Henry..Chicago
.....Rochester, Minn.	Fisher, Lloyd Ellsworth.....
Cassutt, Lewis B..Gutenberg, Iowa	Madison, S. Dak.
Chapin, Walter Coolidge....	Fisher, Winfield Stitt.....Chicago
.....Deer Park	Frakes, Wayne Kelly..Sullivan, Ind.
Chatterton, Melville Walter.	Francisco, Winn O...Tower, Minn.
.....Redding, Calif.	Gardner, Alfred....Winnipeg, Can.
Chlavin, David Norman....Chicago	Gilbert, Erwin Alvin.....
Cigrand, Elroy Franklin...Batavia	Spring Valley, Minn.
Cochran, Dayton....Manson, Iowa	Gilruth, William Archibald..
Corbett, Marion Leroy.....	Chicago
.....Kansas, Utah	Gindich, Raymond Hyman..Chicago
Culbertson, Harry.....	Gleave, John Ernest.....
.....Livingston, Mont.	Salt Lake City, Utah
Curley, Harold Clifford....	Goering, Ray Frank..Duluth, Minn.
.....Stillwater, Minn.	Goplin, Melvin A.....
Dalitsch, Walter William...Chicago	Richland Center, Wis.
Davis, DeWitt Clinton..Logan, Iowa	Gorecki, Victor Thaddeus..Chicago
Davis, Harry Glennis.....	Graber, Benjamin Gilbert..
.....Fairmount, Ind.	Freeman, S. Dak.
DeAno, Rocco James.....	Grandson, Clarence Maurice.
.....Melrose Park	St. Thomas, N. Dak.
Deason, Chester Oswald....	Greenberg, Alexander Chicago
.....Grafton, N. Dak.	Greenwood, Vern Raleigh..
Deichert, Garnett Andrew...	Central, Utah
.....Cavalier, N. Dak.	Greer, Charles Alexander...
Dietrich, M. Chan-Don..Sibley, Iowa	Nashville, Tenn.
Dix, Ray McKinley.....Morris	Halmhuber, Alvin Philip....
Dodge, Watson Arthur.....	Detroit, Mich.
.....Oakley, Kans.	Halushka, Alexander Chicago
Drehmel, William Lloyd....	Haney, Mark H...Pipestone, Minn.
.....Blue Earth, Minn.	Hanson, John Walter.....
Eastwold, Conrad Engvold..	Verona, N. Dak.
.....LeRoy, Minn.	Harris, Abraham Harry....Chicago
Eberhart, John Henry.....	Harris, Stanley Allen..Morris, Minn.
.....Bozeman, Mont.	Hebard, Harry D.....
Elliott, Nels Manley.....Chicago	Nebraska City, Nebr.
Evans, Ralph Howard.....Chicago	Hedeon, George Herbert....
Farrell, Joseph Leonard..Ambia, Ind.	Duluth, Minn.
Farrell, Neil Charles.....	Heffernan, Henry Joseph...Chicago
.....Lisbon, N. Dak.	Hendricks, Jules, Jr...Lead, S. Dak.
Fein, Jacob Dale.....	Henningson, Harry.....
.....Indiana Harbor, Ind.	Watertown, S. Dak.
Fein, Louis Julius.....	Hesser, Louis DeWitt....Illioopolis
.....Indiana Harbor, Ind.	Hessling, Harold West....Ottawa
Fenchel, Jacob Chicago	Heyboer, Gabriel J.....Chicago
Feuerlicht, Henry David...Chicago	Highfield, John Fee....Dallas City
*Finch, Lloyd Earl.....Gary, Ind.	Hoge, Dale H.....Morris
Finch, Ira Seeley.....Elsie, Mich.	Hoiberg, Lilly Charlotte....
	Narvik, Norway

*Matriculated but not in attendance

Holmes, Edwin Emery.....	Klianga, Charles
..... Fargo, N. Dak.	 Lithuania, Europe
Howell, Frank William.....	Knapp, Arthur Warren.....
..... Green Valley	 Three Rivers, Mich.
Hughes, Eugene George.....	Knopp, Thomas Bryan.....
..... Fargo, N. Dak.	 Smithville, Texas
Huhn, Peter Alphonso.....	Kroner, Frederick Louis...Mahomet
..... Black Creek, Wis.	Kurtz, Theodore Brockhause.
Hurwitz, Harry Howard...Chicago	 Chicago
Huscher, Earl William.....	Lamb, Curtis Anthony.....
..... Murray, Utah	 Coalville, Utah
Hutcheson, William Alfred	Lambert, Earl Waddell.....
Price.....Ronceverte, W. Va.	 Salt Lake City, Utah
Irle, Willard W.....	Langerman, Philip Milton...Chicago
..... Star Prairie, Wis.	LaPres, Lloyd Marion.....Chicago
Israel, Samuel Herman.....	Larson, Chester A.....
..... McKeesport, Pa.	 Arlington, S. Dak.
Jackman, Charles Thomas...	Larson, Otto Hans.....Chicago
..... North Fargo, N. Dak.	*Lau, Tai Chi.....Canton, China
Jackson, Ralph Taylor.....	Leach, Russell Vivian.....
..... Montezuma, Iowa	 Moose Jaw, Sask., Can.
Jacobs, Frank Clair.....	Lean, Garnett E..Drayton, N. Dak.
..... Rochester, Minn.	LeBeuf, Louis Napoleon....
Jacobson, Julius	 Tilbury, Ont.
Jacox, Earl D.....Plymouth, Ind.	Leidy, Harold Richard...Galesburg
Janecky, Alfred Chester.....	Lester, Halley Cecil..Topeka, Kans.
..... Hutchinson, Minn.	Levin, Max Julien...Seattle, Wash.
Jeffery, Alex Wiseman	Lindberg, Arthur...Superior, Wis.
Christie	Lindberg, Hjalmer
..... Seattle, Wash.	 Chicago
Jenkins, Chester Lughton....	Linde, Arthur Sigfrid.....Chicago
..... Gardner Grove, Iowa	Lipecki, John Richard.....Chicago
Jensen, Ernell	Love, McClaren Eugene....
..... Ephraim, Utah	 Preston, Minn.
Johnson, Alvin L...Opstead, Minn.	Ludwig, William Raymond..
Johnson, Arthur Lee.....	 Auburn, Ind.
..... Aberdeen, S. Dak.	Lunak, Milo Ralph.....
Johnson, Elmer Arthur.....Chicago	 Cedar Rapids, Iowa
Jones, Earl Proctor..Union, Oregon	Lyga, Paul A...Independence, Wis.
Jorgenson, James Morine....	Machinsky, Harry...St. Paul, Minn.
..... Salt Lake City, Utah	Mackey, Austin J..Lampasas, Texas
Kahn, Edward...Hendricks, Minn.	Maier, Earl S.....Shelby, Ohio
Kamins, Harry Hirsh.....Chicago	Maier, Paul L.....Shelby, Ohio
Kanter, Joseph	Mann, Philip
Kaplan, William	 Chicago
Kasputis, Casimier.....	Manevich, Morris..Winnipeg, Man.
..... Vilua, Lituania, Russia	Manz, John Robert.....
Keefer, Leonard Allen.....Chicago	 North Judson, Ind.
Kendall, Charles Henri.....	Martin, Eric.....River Forest
..... Dodgeville, Wis.	Matthew, Jules
Kerwin, Joseph Francis....Chicago	 Benton Harbor, Mich.
Kleiman, Samuel R.....Chicago	Maxson, Noel Miller.....Chicago

*Matriculated but not in attendance

- *McCallister, Earl Desbury...Portland, Ore.
 McCrary, Lloyd Jennings....Merrill, Wis.
 McCrostie, Hugh....Lucknow, Ont.
 McDonnell, Stewart Charles....Chicago
 McEachern, Allan....Chicago
 McKnight, Frank W....Rosebush, Mich.
 Meigs, Arthur Chapman....Malcom, Iowa
 Mendel, David E....Freeman, S. Dak.
 Meranda, Harry Alvin....Trenton, Mo.
 Meyer, Henry Donald....Evanston
 Milstein, Jacob...Cavalier, N. Dak.
 Moore, Bernard Edward....Madison, S. Dak.
 Morgan, William B...Tomah, Wis.
 Motz, Charles William....Rock Island
 Murphy, Kenneth Wayne...Chicago
 Nelson, Arthur C....Manistique, Mich.
 Nelson, Earl C....Sibley, Iowa
 Neyman, Louis....Butte, Mont.
 Nichols, Cornelius Vigo...Chicago
 Norman, Arthur John....Chicago
 Nystrom, Egnar W....Chicago
 Oberdorfer, Edward Nicholas...Iron River, Mich.
 O'Brien, Vincent Walter....Park River, N. Dak.
 O'Connor, Thomas Wolfstone...Indiana Harbor, Ind.
 O'Keefe, John Norbert....Cavalier, N. Dak.
 Ostrovsky, Benjamin Seelig...Chicago
 Oynes, Nels....Chicago
 Patterson, Earl Mead...Lorain, Ohio
 Patterson, Luverne Kemp....Sioux City, Iowa
 Penberthy, Charles William...Beloit, Wis.
 Peters, Charles Ware...Girard, Ala.
 Peterson, Raymond E....Kandajohn, Minn.
 Pickett, John T...Sacramento, Cal.
 Piper, Richard Leonard....Iron River, Mich.
 Pommer, William Albert....Oak Lake, Man., Can.
 Populorum, Paul Francis...Zion City
 Quinn, Earl Sylvester....East Chicago, Ind.
 Quinn, Herbert Joseph....Salt Lake City, Utah
 Ramsey, William Alexander...Elgin
 Reed, Howard Hunter....Danville
 Rees, Frank Joshua...Coalville, Utah
 Robbins, Charles Bowser...Warsaw, Ind.
 Robertson, Roemer Gilliam...St. Thomas, Ont.
 Rominger, Cornelius Augustus...Zion City
 Rouleau, Francis Albert...Butte, Mont.
 Rosenstein, Samuel Joseph...Chicago
 Rosenthal, Herman J....Chicago
 Rosheim, Knut Iver...Scarville, Iowa
 Ryan, Emmett Joseph...Dubuque, Iowa
 Scherman, Fred Charles...Chicago
 Schliessmann, William Otto...Tripp, S. Dak.
 Scouton, Harry Edwin...Inkster, N. Dak.
 Shore, Jerome Shay...Russia
 Shreve, Leo Briton...Savanna
 Silberhorn, Otto Werner...Chicago
 Silverman, Morris...Chicago
 Simons, Charles Lee...Howard
 Simonson, Edmund Godfrey...Winthrop, Minn.
 Skeggs, Harry Donald...Chicago
 Slagerman, Sidney Lions...Bathgate, N. Dak.
 Slingsby, Ira W...Fargo, N. Dak.
 Small, George Floyd...Esterville, Iowa
 Smith, Guy Clanin...Ipava
 Smith, Howard Julian...Manchester, Iowa
 Smith, John William...Rawson, N. Dak.

*Matriculated but not in attendance

Smith, Stanley J.....Chicago	Turner, Wendell Alfred.....
Snyder, Hugh C...Silver Lake, Ind.	Browning, Wis.
Sprecher, Arthur...Tripp, S. Dak.	Underwood, Percy Bertram...Elgin
Starshak, Tom Cyril.....Chicago	Vanoucek, Harry L.....Chicago
Starksen, Arthur Francis....	Viezens, Harry Leo.....Chicago
.....Hetland, S. Dak.	Viken, Louis Oliver.....
Steinhart, George Thomas...	Stoughton, Wis.
.....Bloomington	Voigt, John G.....Chicago
Stephan, Harry C.....	Voss, Charles, Jr.....Evanston
.....Huntington, Ind.	Waalke, Harry Egbert...Chicago
Stewart, Samuel Boyd.....	Wagener, Holt Alden.....Chicago
.....Sterling, Kans.	Walstrom, Lloyd Winship...
Stocking, Bruce Leffingwell...	Park River, N. Dak.
.....Lowell, Mich.	Weber, Roland Arthur.....
Styrt, Nathan Abraham...Chicago	Reeseville, Wis.
Sullivan, William H.....	Webster, James Beam.....Chicago
.....Stoughton, Wis.	Wedeborg, Carl Oscar.....
Swaisgood, Forest Leroy....	Rugby, N. Dak.
.....Ashland, Ohio	Weidner, Hubert Pancratius.
Swank, Clyde Hubert.....Chicago	Prairie View
Swartz, Roscoe Edward.....	Welch, Harold William...Chicago
.....Hillsboro, Ohio	Wells, Grady Brice.....
Tait, James Weir.....	Anderson, S. C.
.....Winnipeg, Man., Can.	Wells, Arthur James..Norfolk, Va.
Tanner, Arthur.....	Wind, Joseph B.....Chicago
.....Woodstock, Ont., Can.	Winnick, Solly Lenord.....
Thompson, Kay Lee, Jr.....	St. Paul, Minn.
.....Asotin, Wash.	Wold, Earl Norton.....
Tillson, Frank C...Belgrade, Mont.	Ft. Dodge, Iowa
Ting, Joseph Yau.....	Wollmann, Michael J.....
.....Wailuke, Mani, T. H.	Freeman, S. Dak.
Toline, Clarence Axel.....Moline	Woodward, George Foster.Chicago
Tschumperlin, Ray M.....	Wylie, William Leroy.....
.....St. Cloud, Minn.	Elk River, Idaho
Tucker, Warren Samuel....	Zeiss, Philip Edward.....Chicago
.....New Orleans, La.	Zimmerman, Albert M....Chicago

FRESHMAN FOUR YEAR COURSE

Barker, Graham Frank.....	Eshleman, Clyde Daniel.....
.....Kalamazoo, Mich.	Wakarusa, Ind.
Bigelow, Earl Eaton.....Evanston	Evans, Leland Hayes.....
Bost, David Elsworth.....Lincoln	Columbus, Nebr.
Burr, Clarence Henderson...	Fosket, Robert R.....Palatine
.....Lenore, Man., Can.	Fox, Clarence.....Hammond, Ind.
Butterfield, Harry Allen.Gary, Ind.	Grotefeld, William August..
Buttner, Olga Ruth...Burke, Idaho	Chicago
Dinan, Wilfred Irvin.....	Gruesen, Joseph L...Duluth, Minn.
.....Amarillo, Texas	

Halstead, Paul Stafford.....	Root, Melvin Austin.....Evanston
.....Indiana Harbor, Ind.	Runyan, Lewis Nichols.....Chicago
Jardine, Norman....Waupaca, Wis.	Seise, John Goddard.....Lena
Monson, Harry A.....Chicago	Strauss, William John....Chicago
Mutka, Nick Mathews.....	Tillotson, Kendall Spangler.
.....Soudan, Minn.	Moline
Rabinowitz, Mandel Chicago	Tippet, Bert...Two Harbors, Minn.
Riegel, Harry J.....Granville	Wiley, Maurice Frank.....Aurora
Roman, Benjamin Andres....	Williams, Russell Reed.....
.....Sidney, Ohio	Fort Benton, Mont.

PRACTITIONERS' CLASS, 1916

Aoki, Teiryo, D.D.S.....	Japan
Berry, George Michael, D.D.S.....	Iowa
Bischof, Julius Link, D.D.S.....	Illinois
Carmichael, Frank Edward, D.D.S.....	California
Cunningham, Robert Edwin, D.D.S.....	Georgia
Ellis, Arthur J., D.D.S.....	California
Florence, Virgil Victor, D.D.S.....	Canada
Gibson, Elmer Grant, D.D.S.....	Illinois
Gray, Colonel Don, D.D.S.....	Ohio
Holden, Harley Walter, D.D.S.....	Vermont
Hurst, Thomas Henry, D.D.S.....	Iowa
King, Elbert Watson, D.D.S.....	Illinois
Leary, Luke, D.D.S.....	Nevada
McKee, William Andrew, D.D.S.....	Illinois
McOmber, Frank H., D.D.S.....	New York
Mead, Sterling Vernon, D.D.S.....	Washington, D. C.
Moore, Eugene Overton, D.D.S.....	Mississippi
Moore, Fred Percival, L.D.S.....	Canada
Pettit, Blaine Bowman, D.D.S.....	Missouri
Plum, Leslie Blaine, D.D.S.....	Ohio
Sacharoff, Faina Shadhan, S.D.....	Siberia
Schlabach, Edgar Allan, D.D.S.....	Illinois
*Simpson, J. W., D.D.S.....	Florida
Smith, Roy Orval, D.D.S.....	Colorado
Smith, William Fraser.....	Canada
*Switzer, Franklin Knight, D.D.S.....	Canada
Templeton, Allen Fuller, D.D.S.....	Texas
York, James Robert, D.D.S.....	Arkansas

PRACTITIONERS' CLASS, 1917

*Barnfield, W. H., D.D.S.....	Charleston
Belden, Roy Porter, D.D.S.....	Seward, Nebr.
Berendsohn, B., D.D.S.....	Chicago
Burritt, Elmore Edward, D.D.S.....	La Crosse, Wis.
Chamberlain, Deane L., D.D.S.....	Colorado Springs, Colo.

*Matriculated but not in attendance

Copple, Plenna Reuben, D.D.S.....	Fullerton, Nebr.
Evans, N. Seymour, D.D.S.....	Americus, Ga.
Frumveller, Edward, D.D.S.....	Detroit, Mich.
Garber, David Raymond, D.D.S.....	Edon, Ohio
Garrard, James B., D.D.S.....	La Grange
Graham, Frank Archie, D.D.S.....	Harbor Springs, Mich.
Hadley, Grant S., D.D.S.....	Coldwater, Mich.
Haas, Peter Anthony, D.D.S.....	Cleveland, Ohio
Heath, Roy W., D.D.S.....	Otsego, Mich.
Hicks, William Seldon, D.D.S.....	Princeville
*Housholder, F. L., D.D.S.....	Minot, N. Dak.
Husted, Hubert Gray, D.D.S.....	Oberlin, Ohio
Hutchinson, Robert Bailey, D.D.S.....	Lubbock, Texas
Joseph, George Washington, D.D.S.....	Crawford, Nebr.
Klaffenbach, Arthur Otto, D.D.S.....	Muscatine, Iowa
Knight, Arthur O., D.D.S.....	Waupaca, Wis.
Marfarlane, William Ivey, D.D.S.....	Tomahawk, Wis.
McDonald, Harry LeRoy, D.D.S.....	Mitchell, S. Dak.
*McLean, J. W., D.D.S.....	Ainsworth, Nebr.
McNinch, Joseph Scott, D.D.S.....	Rockford, Iowa
McQueen, James Faulkner, D.D.S.....	Pembine, N. Dak.
Nolting, Daniel Philip, D.D.S.....	Freelandville, Ind.
*Opitz, Herman H., D.D.S.....	Chicago
Pflug, Charles Sebastian, D.D.S.....	Washington, D. C.
Phillips, Herbert Edmund, D.D.S.....	Chicago
Potter, Stephen D., D.D.S.....	Defiance, Ohio
Randall, Oloff Wellington, D.D.S.....	Red Cliff, Colo.
Rodgers, Albert Luther, D.D.S.....	Athens, Ala.
Smith, Owen Berlioz, D.D.S.....	Chicago
Solmes, Frederick R., D.D.S.....	Peshtigo, Wis.
Stimson, Henry Symes, D.D.S.....	Chicago
Stockwell, John Dudley, D.D.S.....	Wausau, Wis.
Throop, Clayton W., D.D.S.....	Muncie, Ind.
*Van Dorin, Hal, D.D.S.....	Livingston, Mont.
Vig, Richard, D.D.S.....	McIntosh, Minn.
Wherry, Styles Winter, D.D.S.....	Ogden, Utah
Yamagishi, Kan, D.D.S.....	Elk River, Idaho

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Seniors	Juniors	Freshmen	Four-year Freshmen	Post Grad.	Total
Alabama	2	..	I	..	I	4
Arkansas	..	4	..	..	..	4
Australia	I	2	..	..	..	3
British West Indies.....	..	I	..	..	..	I
California	2	2	I	..	..	5
Canada	II	4	9	I	..	25
China	I	..	..	..	..	I

*Matriculated but not in attendance

	Four-Year Post					Total
	Seniors	Juniors	Freshmen	Freshmen	Grad.	
Colorado	1	..	1	..	2	4
Costa Rica	1	..	..	..	..	1
Cuba	1	..	..	..	..	1
District of Columbia.....	..	..	..	..	1	1
Georgia	..	1	..	..	1	2
Hawaiian Islands	1	2	1	..	..	4
Holland	1	..	..	..	..	1
Iceland	1	..	..	..	..	1
Idaho	1	..	2	1	1	5
Illinois	70	81	115	13	8	287
Indiana	3	11	17	4	2	37
Iowa	15	8	17	..	2	42
Japan	1	..	..	..	..	1
Kansas	2	2	3	..	..	7
Louisiana	..	2	1	..	..	3
Michigan	10	5	10	1	4	30
Minnesota	19	16	21	3	1	60
Missouri	4	2	1	..	..	7
Mississippi	..	4	7	..	..	11
Montana	..	3	3	..	1	7
Nebraska	3	..	..	1	4	8
New York	1	2	..	..	..	3
North Dakota	2	9	18	..	2	31
Norway	..	1	1	..	..	2
Ohio	3	5	4	1	4	17
Oklahoma	..	1	..	..	..	1
Oregon	..	2	2	..	..	4
Panama	..	1	..	..	..	1
Pennsylvania	..	1	1	..	..	2
Russia	..	..	2	..	..	2
South America	..	2	..	..	..	2
South Carolina	..	..	1	..	..	1
South Dakota	8	17	13	..	1	39
Spain	..	1	..	..	..	1
Switzerland	1	..	..	..	..	1
Tennessee	..	..	1	1	..	2
Texas	4	2	2	..	1	9
Utah	2	6	12	..	1	21
Vermont	..	1	..	..	..	1
Virginia	..	..	1	..	..	1
Washington	..	2	3	..	..	5
West Virginia	..	..	1	1	..	2
Wisconsin	18	31	18	1	5	73
Wyoming	..	..	1	..	..	1
	190	234	291	28	42	785

Northwestern University Dental School Alumni Association

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The annual clinics will be held Monday and Tuesday, June 11 and 12, 1917, at the University Building.

Through the medium of the Journal a keener interest has been aroused among the members of our Association.

The Journal is a medium for the publication of articles of interest to Northwestern alumni and for the exchange of friendly greetings. The Alumni Association and the Journal exist for the purpose of maintaining and advancing all things of mutual interest to the alumni and the school.

All members of the Association in good standing will receive the Journal. Any graduate of the Northwestern University Dental School may become a member of the Alumni Association upon payment of the membership fee of one dollar and dues of fifty cents annually.

We ask that the alumni support both the Association and the Journal even stronger than in the past, and coöperate earnestly with the officers in making our official publication a still greater success.

For any information regarding the Association, address the secretary,

M. M. PRINTZ, Secretary-Treasurer,
4235 Lake Park Ave., Chicago.

For information regarding the *School*, address Northwestern University Dental School, 31 W. Lake St., Chicago.

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